STIC Scientific and Technical Information Center

Search Report EIC 3600

STIC Database Tracking Number: 280044

To: IGOR BORISSOV
Location: KNX 5D15
Art Unit: 3600
Date: March 20, 2009
Case Serial Number: 10/031405

From: *Sylvia Keys*
Location: EIC3600
KNX 4B59
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Search Notes

Dear Examiner BORISSOV:

Please find attached the results of your search for the above-referenced case. The search was conducted in Dialog, the Internet and EBSCO HOST.

References of interest are listed in the first part of the search results. Please scan through the remaining results for other possible references of interest.

If you have any questions about the search, or need a refocus, please do not hesitate to contact me.

Thank you for using the EIC, and we look forward to your next search!

I. References of Interest

A. Dialog

25/3,K/1 (Item 1 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2009 Gale/Cengage. All rts. reserv.

06558377 Supplier Number: 55421582 (USE FORMAT 7 FOR FULLTEXT)
Travelzoo.com Launches 'Travel Interactively With Alicia'.
PR Newswire, p7175
August 12, 1999
Language: English Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 399

... on a journey through ten Asian and European countries.
An innovative navigation interface allows "Travel **Interactively** With Alicia" users to create their own customized travel experiences. A user may opt to...

...of her many other destinations. This state-of-the-art navigation design allows users to **create** dozens of personalized **travel itineraries**, enhanced with Alicia's continually **updated** digital photos, travel writings, and interviews.
"Interactive travel not only transports users from their computers...

17/3,K/1 (Item 1 from file: 2)
DIALOG(R)File 2:INSPEC
(c) 2009 Institution of Electrical Engineers. All rts. reserv.

03808243 INSPEC Abstract Number: C87012624
Title: A 4GL environment increases travel wholesaler's productivity
Author(s): Viau, P.
Journal: Hardcopy vol.6, no.10 p.171-2, 175, 177-8
Publication Date: Oct. 1986 Country of Publication: USA
CODEN: HRDCEJ ISSN: 0279-8123
Language: English
Subfile: C

...Abstract: travel agents. It acquires services from a variety of suppliers, and coordinates them into comprehensive **vacation packages**, **combining** as **many** as 60 **different** services to develop one unique tour. It's hardware/software configuration provides online **realtime** tracking of tour sales and inventory control.
...Identifiers: online **realtime** tracking...

B. Additional Resources Searched

[Insert]

II. Inventor Search Results from Dialog

23/3,K/1 (Item 1 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
(c) 2009 WIPO/Thomson. All rts. reserv.

00858331
METHODS AND APPARATUS FOR MANAGING A TOUR PRODUCT PURCHASE
PROCEDE ET APPAREIL POUR LA GESTION D'UN ACHAT DE PRODUIT TOURISTIQUE
Patent Applicant/Assignee:
PAN TRAVEL LLC, Panda Building, 1017 Kapahula Avenue, Honolulu, HI 96816, US, US (Residence), US (Nationality), (For all designated states except: US)
Patent Applicant/Inventor:
AMONG Frank, Pan Travel, LLC, Panda Building, 1017 Kapahulu Avenue, Honolulu, HI 96816, US, US (Residence), US (Nationality), (Designated only for: US)
FREITAS Jeffrey, Pan Travel, LLC, Panda Building, 1017 Kapahulu Avenue, Honolulu, HI 96816, US, US (Residence), US (Nationality), (Designated only for: US)
Legal Representative:
BERNSTEIN Howard L (et al) (agent), Sughrue, Mion, Zinn, Macpeak & Seas, PLLC, 2100 Pennsylvania Ave., N.W., Suite 800, Washington, DC 20037-3213, US,
Patent and Priority Information (Country, Number, Date):
Patent: WO 200190992 A2 20011129 (WO 0190992)
Application: WO 2001US10818 20010517 (PCT/WO US0110818)
Priority Application: US 2000205559 20000522
Designated States:
(Protection type is "patent" unless otherwise stated - for applications prior to 2004)
AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW
(EA) AM AZ BY KG KZ MD RU TJ TM
Publication Language: English
Filing Language: English
Fulltext Word Count: 11172

Patent Applicant/Inventor:
AMONG Frank, ...

...Designated only for: US)
FREITAS Jeffrey,
Legal Representative:
Fulltext Availability:
Detailed Description
Claims

Detailed Description

... In a prior art tour product purchasing process, tour products are purchased direct1y from a **travel** agency or a **tour** wholesaler without automation. A buyer inquires about a desired destination and provides infonnation for desired components, including travel dates, preferred airline, flight times, hotel, and car company. The **travel** agency or the **tour** wholesaler then attempts to manually asserable the varying components based on price to produce a complete **package** . The **travel** agency or **tour** wholesaler must then M'anually deterinine if the inventory of individual components is available for...

...parameters have been chosen. However, the prior art process must: be repeated manually by the **travel** ageney or **tour** wholesaler each time a buyer alters a value of a parameter of any component to...to explain the principles of the drawings.

Figure 1 illustrates a system for managing a **travel tour package** according to a preferred
embodiment of the present invention;
Figure 2 illustrates a system for...invention allows timely and fresh data to be available for anyone wishing to purchase a **travel package** . Accordingly, only produets that are actually available are displayed.

For example, if a suboption such...

Claim

... suboption comprising one of a hotel room, a vehicle rental, an air transportation ticket, a **travel tour** and a **travel** service or a product.

10 The method of claim 1, wherein said providing step "her...

...room type, hotel classification, hotel chain and. hotel rating; and. said reservation options comprising surface **tours** , **travel** insurance, luggage, clothing, video entertaininent, audio entertaimnent and food products.

13 The method of claim...further comprising said vendor selling at least one of hotel rooms, vehicle rentals, air transportation, **travel tours** and activities.

25 The method of claim 14, farther comprising said server storing said final...

...hotel rating; and. said parameter for said reservation options comprises at least: one of surface **tours** , **travel** insurance, luggage, clothing, video entertainment, audio entertainment and food products.

33 A method of purchasing...

...suboption comprising at least one of a hotel room, a vehicle rental, air transportation, a **travel tour** and a **travel** product or service.

42 The method of claim 33, further comprising one of said third...43, wherein said parameter infonnation for said reservation options comprises at least one of surface **tours** , **travel** insurance, luggage, clothing,

video entertainnient, audio entertainment and food products.

48 The method of claim...

...said user-provided parameter infonnation for said reservation options comprises at least one of surface **tours** , **travel** insurance, luggage, clothing, video entertainment, audio entertainment and food products.

66 The system of claini...suboption comprising one of a hotel room, a vehicle rental, an air transportation ticket, a **travel tour** and a **travel** product/service item.
82 The client system. of clann 71, further comprising a third input...

...claim. 83. wherein said parameters for said reservation options comprise at least: one of surface **tours** , **travel** insurance, luggage, clothing, video entertainment, audio entertaininent and food products.

88 The client system of...

...at least one of a hotel room, a vehicle rental, an air transportation ticket, a **travel tour** and a **travel** product/service item. 103. The systeni of claim 89, said plurality of components comprising ...103, wherein said parameter information for said reservation options comprises at least one of surface **tours** , **travel** insurance, luggage, clothing, video entertaimnent, audio entertaininent and food products. 108. The system of claim...

...of claim 121, said one suboption comprising one of hotel rooms, vehicle rentals, air transportation, **travel tours** and items. 123. The server system of claim 113, farther comprising a third-party central...

...hotel chain; and
said parwneter for said reservation. options comprises at least one of surface **tours** , **travel** insurance, luggage, clothing, video entertaimnent, audio entertainment and food products. 130. ...parameter information for said reservation options comprises a field for at least one of surface **tours** , **travel** insurance, luggage, clothing, video entertainment, audio entertainment and food products. 139. The user interface of...

...of said plurality of properties comprisinE a hotel room, a vehicle rental, air transportation, a **travel tour** and a **travel** product/service. 145. The method of claim. 140, further comprising sending a confinnation comprising one...

23/3,K/2 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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0011126214 - Drawing available
WPI ACC NO: 2002-062582/200208
XRPX Acc No: N2002-046451
Apparatus for managing a travel tour **product purchase that permits buyers to select a final option including customized components of a tour on line**

Patent Assignee: AMONG F (AMON-I); FREITAS J (FREI-I); PAN TRAVEL CO LLC (PANT-N); PAN TRAVEL LLC (PANT-N)
Inventor: **AMONG F** ; **FREITAS J**
Patent Family (3 patents, 94 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
WO 2001090992	A2	20011129	WO 2001US10818	A	20010517	200208 B
AU 200162926	A	20011203	AU 200162926	A	20010517	200221 E
US 20030110063	A1	20030612	WO 2001US10818	A	20010517	200340 E
			US 200231405	A	20020118	

Priority Applications (no., kind, date): US 2000205559 P 20000522; US 200231405 A 20020118

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
WO 2001090992	A2	EN	50	6	

National Designated States,Original: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW
Regional Designated States,Original: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW
AU 200162926 A EN Based on OPI patent WO 2001090992
US 20030110063 A1 EN PCT Application WO 2001US10818

Apparatus for managing a travel tour **product purchase that permits buyers to select a final option including customized components of a...**
Inventor: **AMONG F** ...

... **FREITAS J**

Alerting Abstract ...USE - Managing a **travel tour** product purchase...

...ADVANTAGE - Allowing customization of **travel tour** .

Original Publication Data by Authority

Argentina

Assignee name & address:
Inventor name & address:
Among, Frank ...

... **Freitas, Jeffrey** ...

... **AMONG, Frank** ...

... **FREITAS, Jeffrey**
Examiner:
?

15/3,K/1 (Item 1 from file: 15)
DIALOG(R)File 15:ABI/Inform(R)

03392456 1480060731
Mercury Exposure Assessment: Testing a work practice for cleaning up broken fluorescent bulbs
Grover, Terry L.; Vidich, Charles; Hennessey, James; **Freitas, John** ; Mueller, M Douglas
Professional Safety v52n12 PP: 39-45 Dec 2007
ISSN: 0099-0027 JRNL CODE: PFS
WORD COUNT: 4220

... **Freitas, John**

III. Text Search Results from Dialog

A. Patent Files

```
File 324:GERMAN PATENTS FULLTEXT 1967-200911
      (c) 2009 UNIVENTIO/THOMSON
File 348:EUROPEAN PATENTS 1978-200911
      (c) 2009 European Patent Office
File 349:PCT FULLTEXT 1979-2009/UB=20090129|UT=20090122
      (c) 2009 WIPO/Thomson
File 344:Chinese Patents Abs Jan 1985-2006/Jan
      (c) 2006 European Patent Office
File 347:JAPIO Dec 1976-2008/Oct(Updated 090220)
      (c) 2009 JPO & JAPIO
File 350:Derwent WPIX 1963-2008/UD=200915
      (c) 2009 Thomson Reuters
File 371:French Patents 1961-2002/BOPI 200209
      (c) 2002 INPI. All rts. reserv.

Set   Items   Description
S1     1171   (TRAVEL OR VACATION)(3N)(PACKAGE OR PACKAGES OR TOUR OR TO-
             URS)
S2     3083   TRAVEL(3N)COMPONENT??
S3      561   TRAVEL(3N)(ITINERARY OR ITINERARIES)
S4     2447   TRAVEL(3N)DESTINATION??
S5      111   (PACKAGE OR PACKAGED)(3N)(TOUR OR TOURS)
S6      701   (S1:S5)(5N)(MULTIPLE OR MULTI OR MULTIPL? OR MANY OR SEVER-
             AL OR PLURAL? OR VARIOUS OR NUMEROUS OR DIFFERENT)
S7        7   S6(5N)(RECOMBIN? OR COMBINE OR COMBINES OR COMBINING OR MIX
             OR MIXES OR MIXING)
S8       78   S6(5N)( SELECT??? OR CHOOS? OR IDENTIF? OR DETERMIN?)
S9        3   S6(5N)( MANIPULAT? OR COMPARE OR COMPARES OR COMPARING OR -
             COMPARISON??)
S10       5   S6(5N)(PERSONALIZ? OR PERSONALIS? OR CUSTOMIS? OR CUSTOMIZ?
             OR TAILOR?)
S11   92540   (NEW OR FINAL)(5N)(COMPONENT?? OR PACKAGE?? OR ITINERAR????
             OR ARRANGEMENT??)
S12  237969   (MODIF? OR UPDAT? OR EXPAND? OR ALTER?)(5N)(COMPONENT?? OR
             PACKAGE?? OR ITINERAR???? OR ARRANGEMENT??)
S13    5580   (S11 OR S12)(5N)(CREAT? OR GENERATE OR GENERATES OR GENERA-
             TING)
S14 4408068   (INTERACTIVE OR INTERACTIV? OR ITERATIVE? OR BACK()FORTH OR
             BACKWARD()FORWARD OR DYNAMIC? OR CURRENT OR TIME()FRAME? OR -
             DYNAMIC OR REALTIME OR REAL()TIME OR SIMULTANEOUS? OR LIVE)
S15      30   AU=(AMONG, F? OR AMONG F? OR FREITAS, J? OR FREITAS J? OR -
             FRANK(2N)AMONG OR JEFFREY(2N)FREITAS)
S16       2   (S7:S10) AND S13
S17       2   S16 AND S14
S18       0   S17 NOT S16
S19      82   (S1:S5) AND S13
S20      75   S19 AND S14
S21      73   S20 NOT S17
S22       4   S21 AND IC=G01C
S23       2   S15 AND S1
?
```

16/3,K/1 (Item 1 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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01598812 **Image available**
METHOD AND SYSTEM FOR AN ONLINE RENTAL VEHICLE RESERVATION-BOOKING WEBSITE INCLUDING A TRAVEL AGENT PATH
METHODE ET SYSTEME POUR SITE WEB DE RESERVATION EN LIGNE DE VEHICULES DE LOCATION COMPORTANT UN LIEN AVEC UNE AGENCE DE VOYAGE
Patent Applicant/Assignee:
THE CRAWFORD GROUP INC, 600 Corporate Park Drive, St. Louis, MO 63105, US
, US (Residence), US (Nationality), (For all designated states except: US)
Patent Applicant/Inventor:
STEPHENS Scott Paul, 5740 Mardel, St. Louis, MO 63109, US, US (Residence)
, US (Nationality), (Designated only for: US)
ALTERMATT John A, 367 Turnberry Place Drive, Wildwood, MO 63011, US, US (Residence), US (Nationality), (Designated only for: US)
CERKO Ronald S, 900 Town & Country Estates Court, St. Louis, MO 63141, US
, US (Residence), US (Nationality), (Designated only for: US)
TUCKER Paul C, 16412 Sheffield View Court, Ballwin, MO 63021, US, US (Residence), US (Nationality), (Designated only for: US)
BORUFF Kelli J, 30 Golden Ridge Court, St. Charles, MO 63304, US, US (Residence), US (Nationality), (Designated only for: US)
Legal Representative:
VOLK JR Benjamin L et al (agent), Thompson Coburn, LLP, One US Bank Plaza, St. Louis, MO 63101, US
Patent and Priority Information (Country, Number, Date):
Patent: WO 2007147003 A2-A3 20071221 (WO 07147003)
Application: WO 2007US71123 20070613 (PCT/WO US2007071123)
Priority Application: US 2006452862 20060614
Designated States:
(All protection types applied unless otherwise stated - for applications 2004+)
AE AG AL AM AT AU AZ BA BB BG BH BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM DO DZ EC EE EG ES FI GB GD GE GH GM GT HN HR HU ID IL IN IS JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LY MA MD ME MG MK MN MW MX MY MZ NA NG NI NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SK SL SM SV SY TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LT LU LV MC MT NL PL PT RO SE SI SK TR
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
(AP) BW GH GM KE LS MW MZ NA SD SL SZ TZ UG ZM ZW
(EA) AM AZ BY KG KZ MD RU TJ TM
Publication Language: English
Filing Language: English
Fulltext Word Count: 16772
Fulltext Availability:
Detailed Description
Claims

Detailed Description

... booked reservation described on the confirmation page (for example, user selection of link 1222 can **create** a **new** reservation with the same **components** and return the user to the verify page from which the user can make appropriate...

Claim
... page of the website for access by the user computer that lists at least a **plurality** of the **travel destinations** for **selection** by a user of the user computer; receiving from the user a selection of one...

...least one page of the website for display on the user computer that lists a **plurality** of the **travel destinations** for **selection** by the user, the at least one page being configured to accept user input corresponding...

16/3,K/2 (Item 2 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
(c) 2009 WIPO/Thomson. All rts. reserv.

01210251 **Image available**
SYSTEM AND METHOD FOR COORDINATING TRAVEL ITINERARIES
SYSTEME ET PROCEDE DE COORDINATION D'ITINERAIRES DE VOYAGE
Patent Applicant/Assignee:
SABRE INC, 3150 Sabre Drive, Southlake, TX 76092, US, US (Residence), US (Nationality), (For all designated states except: US)
Patent Applicant/Inventor:
LETTOVSKY Ladislav, 1509 Deer Blvd., Vail, CO 81620, US, US (Residence), CZ (Nationality), (Designated only for: US)
MEHTA Saurabh Y, 5329 N. Macarthur Blvd., No. 3093, Irving, TX 75038, US, US (Residence), IN (Nationality), (Designated only for: US)
MORRIS Kyle N, 2817 Cheshire Way, Grand Prairie, TX 75052, US, US (Residence), US (Nationality), (Designated only for: US)
RATLIFF Richard M, 3305 Parkwood Drive, Flowermound, TX 75022, US, US (Residence), US (Nationality), (Designated only for: US)
Legal Representative:
GOSNELL Guy R (et al) (agent), Alston & Bird LLP, Bank of America Plaza, 101 South Tryon Street, Suite 4000, Charlotte, NC 28280-4000, US,
Patent and Priority Information (Country, Number, Date):
Patent: WO 200517671 A2-A3 20050224 (WO 0517671)
Application: WO 2004US24476 20040728 (PCT/WO US04024476)
Priority Application: US 2003634582 20030805
Designated States:
(All protection types applied unless otherwise stated - for applications 2004+)
AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NA NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PL PT RO SE SI SK TR
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
(AP) BW GH GM KE LS MW MZ NA SD SL SZ TZ UG ZM ZW
(EA) AM AZ BY KG KZ MD RU TJ TM
Publication Language: English
Filing Language: English

Fulltext Word Count: 15465

Fulltext Availability:
Detailed Description
Claims

Detailed Description
... the present invention are much less time
consuming and less error-prone than manual searching, **identification**
and
coordination of such **travel itineraries** .

BRIEF DESCRIPTION OF THE **SEVERAL** VIEWS OF THE DRAWING(S)
Having thus described the invention in general terms, reference will...

Claim
... indication regarding the relative weight
between price and schedule for at least one of the **plurality** of **travel**

itineraries ;
accessing the **identified** at least one outbound and inbound itinerary
between the destination location and each origin location...

...one of the origin locations based upon the
changes;and
replacing at least one suggested **itinerary** with the at least one
modified suggested **itinerary** to **create** a revised group of suggested
itineraries.
. The method according to claim 13, ftirther comprising determining...

...said at
least one processing element is also capable of replacing at least one
suggested **itinerary** with the at least one **modified** suggested
itinerary to **create** a revised group of suggested itineraries.

39 The system according to claim 38, wherein said...
?
22/3,K/1 (Item 1 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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02294312
A product, service and activity based interactive **trip mapping system, method and computer program product**
Produkte, Dienst und Aktivitat basiert auf interaktives Kartierungssystem
Systeme interactif de cartographie de trajet base sur des activites, produits et services, procede et produit de programme informatique
PATENT ASSIGNEE:
FRANCE TELECOM, (7706150), Ile-de-France 6, Place d'Alleray, 75015 Paris, (FR), (Applicant designated States: all)
INVENTOR:
Eichenbaum, Andrew, FRANCE TELECOMILE-DE-FRANCE801 Gateway Blvd, South San Francisco, CA 94080, (US)
Shishir, Garg, FRANCE TELECOMILE-DE-FRANCE16 Moonbeam Drive, Mountain View, CA 94043, (US)
Mullan, Pramila, FRANCE TELECOMILE-DE-FRANCE16252 Almedan Road C, Los

Gatos, CA 95032, (US)
PATENT (CC, No, Kind, Date): EP 1813914 A2 070801 (Basic)
APPLICATION (CC, No, Date): EP 2006301098 061030;
PRIORITY (CC, No, Date): US 267196 051107
DESIGNATED STATES: AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IS; IT; LI; LT; LU; LV; MC; NL; PL; PT; RO; SE; SI; SK; TR
EXTENDED DESIGNATED STATES: AL; BA; HR; MK; YU
INTERNATIONAL CLASSIFICATION (V8 + ATTRIBUTES):
IPC + Level Value Position Status Version Action Source Office:
G01C-0021/00 A I F B 20060101 20070328 H EP
ABSTRACT WORD COUNT: 99
NOTE:
Figure number on first page: 4

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:
Available Text Language Update Word Count
CLAIMS A (English) 200731 783
SPEC A (English) 200731 10258
Total word count - document A 11041
Total word count - document B 0
Total word count - documents A + B 11041

A product, service and activity based interactive **trip mapping system, method and computer program product**
INTERNATIONAL CLASSIFICATION (V8 + ATTRIBUTES):
IPC + Level Value Position Status Version Action Source Office:
G01C-0021/00 A I F B 20060101 20070328 H EP

...ABSTRACT A2
A system, method, and computer program product for generating a **travel itinerary** , including specifying a criteria for a query including a start point and an end point of the **travel itinerary** , and at least one route point, the route point being a service, a product, a place, an activity, or an event. An **interactive** mapping system is queries with the criteria to obtain information defining the **travel itinerary** including mapping information and route point descriptive information including consumer information related to the route point. The **travel itinerary** is displayed as a map, driving instructions, or the consumer information.
NOTE:

...SPECIFICATION directed to systems, methods, and computer program products for products, services, events, and activity-based **interactive** trip mapping; more particularly **interactive** mapping of a multi-point trip.
Recently, online web services have seen the growth of...

...databases have become available for consumers, such as Froogle, Shopping.com, Shopzilla, and yellowpages.com. **Current** online mapping services allow a user to create directions to specific locations; for example: directions...

...or services for consumers that are in the wider geographic area of the calculated directions.
Current product listing websites only list products based upon

product details, specification, price, and store information...

...and online product listing sites or databases, so as to provide a combined service for **interactive** mapping. Accordingly, one object of the present invention is to provide a solution to the above described deficiency of online mapping systems and online product listing services. A process for **interactive** mapping, such as an **interactive** mapping system of a multi-point itinerary or trip is provided, where the route mapping...

...overall itinerary or trip constraints and preferences, individual stop point constraints and preferences, and the **current** availability of products and services at the route points. The **interactive** mapping system calculates an optimized trip by optimizing global constraints of the itinerary including, but...

...have invented a novel computer-based system, method, and computer program product by which an **interactive** mapping system is provided, where the trip as a whole and the individual intermediary or...

...Based on a query entered by a user, such as a potential customer, to the **interactive** mapping system via a web interface or another type of user interface or access terminal, the **interactive** mapping system creates a shopping, service, activity, or event trip or itinerary, with a starting ...

...the above examples of possible activities. The user can thereby create a query for the **interactive** mapping system including data related to a start point or end point, and can also...

...specify the individual product, service, activity, or event, before or after the querying of the **interactive** mapping system. In certain embodiments of the invention, it is also possible to enter overall...

...fuel efficiency, etc.).

Based on the query and other information entered by the user, the **interactive** mapping system creates a map or accesses a service that routes a map based upon the specification data. Once the **interactive** mapping system has proposed a route, the user can then **interactively** change constraints to the individual intermediary points (route points) or to the overall trip, and...

...with the route. Further, driving directions may be generated, and the route created by the **interactive** mapping system may be exported to a printer to print a convenient mapping document for...

...layout of a web page or graphical user interface to enter a query to the **interactive** mapping system;

FIG. 3 is a schematic view of a possible layout of a modification or selection web page or graphical user interface to enter further options to the **interactive** mapping system;

FIG. 4 is a schematic view showing first results of the query, showing ...

...the invention;

FIG. 8 is a block diagram of the high-level architecture of the **interactive** mapping system;

FIG. 9 is an exemplary flow chart of the steps performed by the user to generate a trip with the **interactive** mapping system;

FIG. 10 is a flow chart of the mapping system when performing the...

...FIG. 11 is an exemplary data field structure that can be used to query the **interactive** mapping system;

FIG. 12 is a screen shot of an exemplary implementation of a graphical ...

...an exemplary implementation of a graphical user interface showing a first trip after querying the **interactive** mapping system; and

FIG. 14 is a screen shot of an exemplary implementation of a...

...throughout the several views. FIG. 1 shows a system overview illustrating different resources that the **interactive** mapping system 2 may access. A user 1 can access the **interactive** mapping system 2 by means of a user interface 6. The system includes databases 10...

...trip or itinerary passing through or close to different intermediary points is created by the **interactive** mapping system 2 based upon products, services, activities, and events specified to the **interactive** mapping system 2 by the user 1. In one embodiment of the present invention, the process is **interactive** and self-updating, providing the user 1 with access to various databases, servers, or other...

...data, and interfaces are possible while staying within the scope of the present invention.

The **interactive** mapping system 2 provides access to different types of databases and can also maintain its own databases to create a route. The database of **interactive** mapping system 2 can be stored or created locally at the user's PC or other terminal device, or can be stored at a server that is accessed by the **interactive** data system. Information databases such as databases on price and availability 10, may include information related to store or service location, activity availability, and **current** price. Examples include the availability of a particular product a user wants to purchase, status...

...individual shops, etc.

Different scenarios are within the scope of invention how to use the **interactive** mapping system 2. For example, the **interactive** mapping service 2 can be accessed by a user interface 6. The **interactive** mapping system 2 itself can access a mapping system through any kind of Internet browser...

...car navigation system, or any other system or mobile electronic device. The results of the **interactive** mapping system 2 shown on an Internet browser can be exported to any type of device that can display or instruct the user how to use the generated **interactive** map. In one embodiment, the **interactive** mapping system is accessed via a mobile phone, cellular phone, or PDA, and the results...

...By means of the data exchange interface 5, other information can be accessed by the **interactive** mapping system, for example, the file system of the local PC or an e-mail system can be accessed and used by the **interactive** mapping system 2.

Next, the use of the **interactive** mapping system from a user's view is explained. In this illustrative example, a user uses the **interactive**

mapping system 2 to plan his trip or itinerary. During his trip, he wants to...

...the user wants to do, a shopping list or service list is set up. The **interactive** mapping system 2 therefore can also include the functionality of a "shopping cart" service. Such...

...request. The user may also enter a certain number of products or services to the **interactive** mapping system, and the **interactive** mapping system will combine as many products or services together to reduce the number of...

...be located in the same shopping mall, thereby consisting of only one route point.

The **interactive** mapping system permits data and status exchange between the shop, service, activity, or event locations and their respective databases or websites (such as e-commerce systems), and the **interactive** mapping system 2 itself. The local database of the **interactive** mapping system can thereby be updated with data that are time-variable. For example, stock...

...notice, when the dry cleaningis ready, thus updating the system and notifying the user. The **interactive** mapping system can be updated by a database update system or a logistics or stock...

...a substantial amount of time and effort to map the trip. First, most of the **current** mapping systems only allow searching and mapping of two-point trips, where one known point...

...the start point. Some systems allow an additional intermediary stop point. Second, by using the **current** mapping systems and the businesses or activities yellow pages, the user would have to look...

...trip provides a basic query for the initial mapping or activity trip based on the **interactive** mapping service 2. The minimal requirement to create an activity trip includes a starting point...

...a product itself (IPOD), which is not related to a geographic position or address. The **interactive** mapping system 2 is configured to find the ideal geographic position or address for the...

...a first embodiment of a basic layout of a user interface 6 to query the **interactive** mapping system 2, provided for example via a web interface or other graphical user interface...

...TREO with browser software such as OPERA, POCKET EXLORER, PALM OS, etc., to query the **interactive** mapping system through the Internet, local area or wide area network (LAN/WAN). The connection...

...refers to the Internet, it is also within the scope of the invention that the **interactive** mapping service is accessed and/or provided within any type of network. The start point...

...checked, or if the box 42 for the end point is not filled out, the **interactive** mapping system can automatically assume that the start point is also the end point. Another...

...click or activate the go button 48, to proceed to the next step in the **interactive** mapping system. As would be recognized by one of ordinary skill, the examples just described...

...a schematic view of a possible layout of a graphical user interface 50, after the **interactive** mapping system has been queried for the first time with a first set of information...

...spaces, could also be shown. It is within the scope of the invention that the **interactive** mapping system automatically omits possible route points (route points that are located close to a...

...not available or not ready. After providing a start and/or end point to the **interactive** mapping system 2 in the fields 31 and 42, the **interactive** mapping system 2 can display the start point 56 and the end point 58, so...

...the addresses for the start point 56 and end point 58 were not found, the **interactive** mapping system could inform the user that these locations were not found, and propose similar...

...a box 64, thereby customizing the entire route map that will be created by the **interactive** mapping system 2. For each of the three route points the user can choose a...

...route point from each list 51, 52, and 54, the user can now query the **interactive** mapping system 2 again, by re-generating the itinerary or trip, to take global itinerary...

...can now be customized or selected by the user based upon additional criteria. In an **interactive** setting, by updating one list, the other lists might be updated due to distance or...

...shortest possible route 66, cheapest price 67, or highest customer rating, and then let the **interactive** mapping system 2 choose at least one route point based on the selected global criteria. After the more detailed settings and information have been selected, the **interactive** mapping system is queried again, to have a new trip or itinerary calculated.
In FIG...

...user simply does not like the route shown on the geographic map calculated by the **interactive** mapping system 2. Therefore, the user might want to change the route to a shorter...or further specified. If the user is pleased with the trip or itinerary that the **interactive** system has provided, the user can print the itinerary by selecting the print button 82...

...and includes a list of different gas stations that the user can choose again. The **current** choice 92 of gas station is highlighted on the interface by special text or a...

...so as to satisfy his requirements, the user can send the new query to the **interactive** mapping system by selecting the "go" button 69, and the new trip will be calculated by the **interactive** mapping system.
FIG. 6 shows a possible layout of a graphical user interface 100

showing...

...be through a local port of the device through which the user is accessing the **interactive** mapping system, such as a serial port, universal serial bus ports (USB), fire-wire, network...

...of which are incorporated by reference. For example, the graphical user interface for accessing the **interactive** mapping system 2 could be shown on a display 1110 of a computer system 701 and the **interactive** mapping system is accessed through the local area network (LAN) interface 1115 over the internet or another type of network. More details the internet an other networks, useable for the **interactive** mapping system to access different data, resources, interfaces, etc. can be found in Gralla, Preston...

...which are incorporated by reference. The software or a part of the software of the **interactive** mapping system itself could be executed on a server at a different location, the server...

...scope of the invention that the software or a part of the software of the **interactive** mapping system is installed on a computer system 701, such as a PC at the user's premises, and the **interactive** mapping system accesses different databases and other resources a such as mapping interfaces through the...

...also includes a main memory 1104, such as a random access memory (RAM) or other **dynamic** storage device (e.g., **dynamic** RAM (DRAM), static RAM (SRAM), and synchronous DRAM (SDRAM)), coupled to the bus 1102 for...

...be any interpretable or executable code mechanism, including but not limited to scripts, interpretable programs, **dynamic** link libraries (DLLs), Java classes, and complete executable programs. Moreover, parts of the processing of...

...such as the hard disk 1107 or the removable media drive 1108. Volatile media includes **dynamic** memory, such as the main memory 1104. Transmission media includes coaxial cables, copper wire and...

...the instructions for implementing all or a portion of the present invention remotely into a **dynamic** memory and send the instructions over a telephone line using a modem. A modem local...

...link 1114 and the communication interface 1113.

FIG. 8 illustrates a possible embodiment of the **interactive** mapping system high-level architecture. The **interactive** mapping system includes ShopSpot middleware 250 that controls the overall data flow. On the front ...

...and an e-commerce server 258. Each of these servers can be part of the **interactive** mapping system. These servers can be installed on a single computer system or on a...

...requested by the user as key terms that were entered into a query for the **interactive** mapping system. The yellow pages or listing server 252 interfaces with the business listings 273...

...mere existence or relocation of a shop or a service location is maintained for the **interactive** mapping system.
The e-commerce server 258 provides access to companies who aggregate and share...

...databases of individual companies, so as to provide updated information to the user of the **interactive** mapping system. If a product that is queried by the user is not available in...

...is for example out of the price range specified by the user when querying the **interactive** mapping system, the e-commerce server allows the **interactive** mapping system to access the relevant data of the individual shops. Thus, it is possible...

...the route management server 257 takes into account other information that was input to the **interactive** mapping system by the user, such as time limitations to the entire trip or to...

...user profile.
FIG. 9 illustrates a flow chart of an exemplary procedure performed by the **interactive** mapping system in interaction with a user. In step S100, the user first inputs into...

...events. If the user desires a reservation, the process proceeds to step S126, where the **interactive** mapping system can contact different e-commerce servers, electronic reservations systems, or reserve listing servers...

...10 is an exemplary representation of a flow-chart of the algorithm performed by the **interactive** mapping system 2 to create the itinerary for the buying, participating or performing the products...

...structure D300 shown in FIG. 11 illustrates information that will be used to query the **interactive** mapping system, and the information of the data structure D300 is entered by the user...

...that can be entered via the user interface, and will subsequently be processed by the **interactive** mapping system. The information used in the query includes start point location D300, end point...

...be defined such that multiple route points can be entered by the user to the **interactive** mapping system. Each route point D310, D320 may include additional parameters or information further defining...

...start screen or a query page 110 used as a graphical user interface for the **interactive** shopping system. In this embodiment of the query page 110, a query field 120 to...

...services, activities or events can be added to the product locator list. After querying, the **interactive** mapping system combines products together that can be bought in a single store, shopping mall...

...in the product list 118. In response to the query of the product locator, the **interactive** mapping system classifies the products into different categories, and creates a list of possible route points, which may be stores, shopping malls, sports centers, etc. Thus, the

interactive mapping system combines different products into one category and associates the...shown on the query page 110 in the list 116.

If the user of the **interactive** mapping system has consumer habits that are regularly repeated or if the user wants to memorize a certain itinerary, the user can save an itinerary calculated by the **interactive** mapping system. For example, every Friday the user may want to go to the dry...

...of favorite trips 112 that were saved by the user, or were proposed by the **interactive** mapping system and their commercial partners, such as companies who pay the **interactive** mapping system provider to have their shopping trips listed for different types of users. Such...

...driving directions of the last trip, but can also recalculate the trip by querying the **interactive** mapping system. The **interactive** mapping system can thereby take temporary variable parameters into account, by routing the same query entry data for a different time and date, **creating** a **new itinerary** by taking variables such as holiday week-end traffic, availability of products and services, construction...

...also be saved on a server, for example if the user is registered to the **interactive** mapping system service.

FIG. 13 illustrates the results of the itinerary after querying the **interactive** mapping system, in the form of another embodiment of a user interface 130. The interface...

...activities or events can be added. In this embodiment, the map 73 presented by the **interactive** mapping system is equipped with **interactive** viewing tools, for example the zoom and pan function 136. The button "Driving Directions" 132...

...140 showing a more detailed view of the list of route points calculated by the **interactive** mapping system or assembled by the user. A product 83, in this example an APPLE...

...CLAIMS A2

1. A method of generating a **travel itinerary** , comprising the steps of:- specifying a criterion for a query (S100), the criteria including :at least one of a start point (D310) and an end point (D340) of the **travel itinerary** , the start point and the end point being a geographic location, and

at least one...

...of a service, a product, a place, an activity, and an event ;

- querying (S108) an **interactive** mapping system (2,256) with criterion to obtain information defining the **travel itinerary** , said information including :

- mapping information including geographic information related to the at least one of...

...information including consumer information related to the at least one route point; and

- displaying the **travel itinerary** as at least one of a map, driving instructions, and the consumer information (S110).

2. The method of claim 1, wherein :the criteria further includes a characteristic of the **travel itinerary** , the characteristic being at least one of a total distance of the **travel itinerary** , a gas cost to traverse the **travel itinerary** , a gas consumption value to follow the **travel itinerary** , an estimated time to traverse the **travel itinerary** , a number of traffic lights, and a traffic density quantification.

3. The method of claim 2, wherein:the querying step further comprises calculating the **travel itinerary** based on at least one of minimizing and maximizing at least one characteristic of the **travel itinerary** .

4. The method of the claims 1 to 3, wherein:the information corresponding to the...

...corresponding to the at least one route point after the displaying step; and querying the **interactive** mapping (S112) system with the revised criteria to obtain a revised **travel itinerary** .

6. The method of the previous claim, further comprising the step of:exporting at least...

...information comprises at least one of a geographic location and an address included in the **travel itinerary** .

10. A system for mapping a **travel itinerary** , comprising:- means (6,1110, 111, 1112) for specifying a criterion for a query, the criterion including :at least one of a start point and an end point of the **travel itinerary** , the start point and the end point being a geographic location, and

at least one...

...service, a product, a place, an activity, and an event ;

- means (1101) for querying an **interactive** mapping system (2) with the criterion to obtain information defining the **travel itinerary** , the information including :mapping information including geographic information related to the at least one of...

...to the at least one route point; and

- means (1115, 1116, 1117) for displaying the **travel itinerary** as at least one of a map, driving instructions, and the consumer information.

11. The...

...including information corresponding to the at least one route point; and

- means for querying the **interactive** mapping system with the revised criteria to obtain a revised **travel itinerary** .

12. A computer implemented system for generating a **travel itinerary** , comprising:- a mapping database populated with entries including geographic information related to at least one of a start point, an end point, and a route point of the **travel itinerary** ;

- a route point database populated with entries including information related to at least one of...

...10.

13. A computer program product to be stored in a system for generating a **travel itinerary** , said computer program product comprising instructions to implement the method according to one of the...

22/3,K/2 (Item 1 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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01733216 **Image available**

SYSTEMS, METHODS, AND COMPUTER PROGRAM PRODUCTS FOR GENERATING AND UPDATING A CACHE OF PRICE AND AVAILABILITY INFORMATION FOR TRAVEL PACKAGES **AND** COMPONENTS

SYSTEMES, PROCEDES ET PRODUITS DE PROGRAMMES INFORMATIQUES POUR GENERER ET METTRE A JOUR UNE MEMOIRE CACHE D'INFORMATIONS SUR LES PRIX ET LA DISPONIBILITE POUR DES OFFRES ET DES ELEMENTS DE VOYAGE

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... COMPUTER PROGRAM PRODUCTS FOR GENERATING AND UPDATING A CACHE OF PRICE AND AVAILABILITY INFORMATION FOR TRAVEL PACKAGES **AND** COMPONENTS

International Patent Class (v8 + Attributes)
IPC + Level Value Position Status Version Action Source Office:
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Detailed Description
Claims

English Abstract
...generating, updating, and managing a cache of price and availability information for a plurality of **travel packages** and **components** . The cache of price and availability information may then be searched by an online travel...

...provide a cascading cache system including a cache of price and availability data related to **travel components** and a cache of price and availability data related to **travel packages** . Changes made to the component cache can affect information stored in the package cache, and ...

Detailed Description
... COMPUTER PROGRAM PRODUCTS FOR

GENERATING AND UPDATING A CACHE OF PRICE AND

AVAILABILITY INFORMATION FOR **TRAVEL PACKAGES** AND

COMPONENTS

FIELD OF THE INVENTION

Embodiments of the present invention relate generally to systems, methods, and...

...reservations, limousine service reservations, tour reservations, and the like. The travel products may also include **travel packages** that combine two or more **travel components** such as those listed above.

Typically, a web-based service allows a customer to search...

...also commonly referred to as a Computer Reservation System (CRS), is a system that compiles **real - time** price and availability information for a number of travel-1-AttyDktNo 043474/343209 products and...

...the travel products. Although, a GDS is typically one of the most comprehensive collections of **real - time** travel product price and availability information, the costs of requesting the **real - time** price and availability information from the GDS each time a customer searches for a travel...

...information obtained from a reservation system at some earlier time, the cached information is not **real - time** information and, therefore, may quickly become out-of-date. This may be particularly true in...

...product cache.

The problems described above are often more pronounced when generating a cache of **travel packages** . Recently, several web-based services now provide customers with a plurality of discounted **travel packages** that may include a combination of individual **travel** components , such as airline tickets, a hotel stay, a rental car, and/or other **travel components** combined into a discounted **travel package** . In order to generate a cache of **travel packages** , however, the web-based service must submit even more requests to the GDS or other reservation systems-3-AttyDktNo: 043474/343209 since there are so many possible combinations of **travel components** that may make up a **travel package** . As a result, customers may experience even more price jumps or sudden unavailability notices when trying to purchase **travel packages** .

In light of these issues, systems, methods, and computer program products are needed that provide...

...a more timely manner, while also ensuring that the availability and pricing information is substantially **current** and accurate. Such systems, methods, and computer products should also be able to provide product...

...generating, updating, and managing a cache of price and availability information for a plurality of **travel packages** and **travel components** . The cache of price and availability information may be searched by an online travel planning...

...provide a cascading cache system including a cache of price and availability data related to **travel components** and a cache of price and availability data related to **travel packages** . Changes made to the component cache can affect information stored in the package cache, and ...

...present invention provide a system for generating and/or updating price and availability information of **travel packages** , each **travel package** comprising a combination of at least two **travel components** . The system generally includes a memory system configured for storing data. The system also includes...

...managing a component cache of price and availability information for each of a plurality of **travel components** . The **component** cache may be stored within the memory system. The system also includes a package cache...

...managing a package cache of price and availability information for each of a plurality of **travel packages** . The **package** cache may be stored within the memory system. The package cache manager module may be...

...travel product reservation systems, such as a Global Distribution System (GDS), in order to receive **current** price and availability information about one or more **travel components** . The **component** cache manager module may be configured to use the polling module to periodically update at...

...component cache based on information received about a purchase or reservation of at least one **travel component** .

In one embodiment, the package cache manager module is configured to update the package cache...

...a sub-component cache of price and availability information for each of a plurality of **travel** sub- **components** . The sub-component cache may be stored within the memory system. The component cache manager...

...may also be configured to generate or update the price and availability information of a **travel component** in the **component** cache based on the change made to the sub-component cache.

The system may also...

...may also be stored in the memory system. The package cache manager module may then **generate** or update **travel packages** in the **package** cache according to the package rules.
In one embodiment, the system includes a services interface...

...receive, from a requesting entity, requests for price or availability information for one or more **travel components** or **travel packages** . The services interface may be further configured to use the component cache manager module or...

...invention further provide a method for generating and/or updating price and availability information of **travel packages** , each **travel package** comprising a combination of at least two **travel components** .

The method may include: (1) providing a memory system configured for storing data; (2)storing...

...the memory system a component cache of price and availability data for a plurality of **travel components** ; (3) storing in the memory system a package cache of price and availability data for a plurality of **travel packages** ; and (4) updating or generating price and availability information of a package in the package...

...may further include: polling one or more travel product reservation systems in order to receive **current** price and availability information about one or more **travel components** ; and updating or generating at least some of the price and availability information in the component cache based on the received **current** price and availability information. In this regard, the method may involve polling one or more...

...component cache based on information received about a purchase or reservation of at least one **travel component** .

In one embodiment, the method includes updating the package cache based on information received about...

...memory system a sub-component cache of price and availability information for a plurality of **travel** sub- **components** . Such an embodiment may also include generating or updating price and availability information of a...

...include storing a plurality of package rules in the memory system; and

generating or updating **travel packages** in the **package** cache according to the package rules.

The method may further include receiving, from a requesting entity, requests for price or availability information for one or more **travel components** or **travel packages** . In such an embodiment, the method may include searching for the requested price or availability...

...for a computer program product for generating and/or updating price and availability information of **travel packages** , each **travel package** comprising a combination of at least two **travel components** . The computer program product may include at least one computer-readable storage medium having computer...

...a memory system a component cache of price and availability data for a plurality of **travel components** ; (2) a second code logic configured for storing in the memory system a package cache of price and availability data for a plurality of-7-AttyDktNo: 043474/343209 **travel packages** ; and (3) a third code logic configured for updating or generating price and availability information...

...for one or more travel products. As used herein, a "travel product" may be a **travel** package or a **travel** component, where a " **travel package** " is a combination of two or more **travel components** . A **travel component** may include, for example, an airline reservation, a hotel reservation, a car rental reservation, a...
...or other event, a limousine service reservation, a tour reservation, and the like. Thus, a **travel package** may include, for example, an airline ticket, a hotel reservation, and a car rental reservation...

...at a price that is discounted below the sum of the prices of the individual **travel components** . Although Figure 1 illustrates only one travel planning system 11, in some embodiments, the system...

...connected to the network and may be able to access the travel planning system 11 **simultaneously** .

The system 10 illustrated in Figure 1, further includes one or more travel product reservation...

...the network 14. In general, each travel product reservation system 16 provides up-to-date, " **real - time** ," or near **real - time** price and availability information about one or more travel products. Furthermore, each travel product reservation...

...include purchasing the travel product. Typically, a GDS provides access to a variety of different **travel components** such as airline, hotel, and rental car reservations. In one embodiment, the GDS charges a...
...as a reservation system provided by a particular hotelier, airline, rental car company, cruise line, **tour** operator, railroad, **travel** insurance carrier, and the like. The travel product reservation system 16, however, need not be...

...travel product cache system 12. Thus, where the price and availability requester 32 is a **component** of the **travel** planning system 11, the price and availability requester 32 may be communicatively coupled to the

...reservation be made pursuant to the customer's request. Where the travel product is a **travel package** comprising two or more **travel components** , the registration module 60 may need to contact a different travel product reservation system for each **travel component** . In one embodiment, the registration module 60 is configured to contact the reservation system operated...

...as: package templates or other rules that the package cache manager 54 uses to generate **travel packages** ; **component** rules that the component cache manager 53 may use to generate **travel components** ; marketing rules such as price markup rules used to markup price information received from the...

...the rules database 45, and the administrative interface 58 may or may not be considered **components** of the **travel** product cache system 12.

As illustrated in Figure 4, the price and availability cache 40 of the travel product cache system 12 may include a separate **travel component** cache 43 and a separate **travel** package cache 44. The **travel component** cache 43 is a collection of price and availability information (and/or other information) for a plurality of **travel components** . The **travel component** cache 43 is managed by a **travel component** cache manager 53. When a customer accesses a travel planning system 11 and requests information about a **travel component** , such as a hotel reservation, the customer will typically submit a request to the travel ...

...travel product cache system 12 for the travel product cache system 12 to search for **travel components** that may satisfy the customer's request.

The travel product cache system 12 may include...

...to search the component cache 43 for price and availability information about one or more **travel components** related to the customer's criteria. The travel product cache system 12 may then provide the results of the **travel component** search to the **travel** planning system 11, where the results are presented to the customer in an appropriate way...

...the component cache manager 53 to request price and availability information about one or more **travel components** from one or more travel product reservation systems 16. Thus, if the travel product cache system 12 receives a request for a certain **travel component** and does not have any substantially **current** information about the requested **travel component** in its **travel component** cache, the **component** cache manager 53 may use the proactive poller 56 to request information about the requested **travel component** from one or more appropriate travel product reservation systems 16. If a travel product reservation system 16 returns one or more **travel components** related to the proactive poller' s request, then the component cache manager 53 may store...

...travel planning system 11 in response to the travel planning system's request. If the **travel component** cache 43 and the travel product reservation system(s) 16 do not return any **travel components** , the **travel** product cache system 12 indicates such to the travel planning

system 11, and the travel planning system 11 informs the customer that there are no **travel components** available that match the customer's requested criteria. As will be described below, in one...

...not find any information in the component cache 43 that is relevant to the received **travel component** request, the **component** cache manager 53 may additionally or alternatively submit a request to a sub

component cache manager 52.

-17-AttyDktNo: 043474/343209 The **travel package** cache 44 is a collection of price and availability information (and/or other information) for a plurality of **travel packages** . The **travel package** cache 44 is managed by a **travel package** cache manager 54. As described above, a **travel package** is a combination of at least two **travel components** . In this regard, the system 400 may include a rules database 45 stored in a...

...of the rules database 45 may instruct the package cache manager 54 as to which **travel components** can be combined to market as a **travel package** .

For example, the package rules may be embodied as templates that outline a package and specify the types of **travel components** that the **package** may contain.

The package rules of the rules database 45 may also specify package pricing...

...16.

When a customer accesses a travel planning system 11 and requests information about a **travel package** , such as a combined air, hotel, and car package, the customer will typically submit a...

...travel product cache system 12 for the travel product cache system 12 to search for **travel packages** that may satisfy the customer's request.

In this regard, the travel product cache system...

...cache-18-AttyDktNo: 043474/343209 44 for price and availability information about one or more **travel packages** related to the customer's criteria. The travel product cache system 12 may then provide the results of the **travel package** search to the **travel** planning system 11, where the results are presented to the customer in an appropriate way...
...may then submit a request to the component cache manager 53 to obtain information about **travel components** needed to generate a package according to the customer's request and the relevant package...

...As described above, the component cache manager 53 receives the search request and searches the **travel component** cache 43. If the component cache manager 53 does not find any substantially **current** information about a **travel component** that satisfies the request, then the component cache manager 53 may use the proactive poller...

...does not exist and cannot be generated pursuant to the package rules and the available **travel components** , the services interface 51 notifies the travel planning system 11 that the requested **travel package** is not available. In some embodiments, the travel planning system 11 and/or the travel product cache system 12 may be configured to search for and suggest alternative **travel packages** that are available.

In addition to or as an alternative to responding to customer or travel planning system requests for **travel components** and **packages** , in one embodiment the services interface 51 of the travel product cache system 12 is configured to proactively provide the travel planning system 11 with information about various **travel** components and/or **travel packages** . The **travel** planning system 11 may then provide information about one or more of these **travel packages** to the customers.

For example, the travel product cache system 12 may send price and availability-19-AttyDktNo: 043474/343209 information for a plurality of highly-discounted **travel packages** to a **travel** planning system 11. The travel planning system 11 may then advertise these highly-discounted **travel packages** on its homepage, or the travel planning system 11 may be configured to email or otherwise provide a customer with information about one or more of these **travel packages** based on the customer's profile or on a prior travel product search made by the customer.

In some embodiments, one or more **travel components** supported by the system are made up of combinations of two or more **travel** sub-**components** . For example, price and availability information stored in the component cache 43 for a roundtrip...

...for the round trip flight, which the component cache manager 53 then stores in the **travel component** cache 43 as a round trip flight from "A" to "B" and back.

Although the...
...some embodiments the component cache 43 also includes each one

way trip as two other **travel components** .

In response to such search requests from the component cache manager 53 (or from a...

...system 11 or a customer), the sub-component manager 52 may then search the sub- **component** cache 42 for **travel** sub

components that satisfy the search request. If the sub-component cache manager 52 finds appropriate sub...

...or the package rule expires. When such a date or period of time passes, the **package** manager 54 may **update** the **package** cache 44 accordingly by re- **generating** the relevant packages without the discount or by deleting these packages from the cache 44...

...manager 54 to request information from the component cache manager 53 about one or more **travel components** needed to **generate** one or more **new** or **updated packages** . Such a request for information received by the component cache manager 53 may cause the...

...in the sub-component cache 42.

It should be appreciated, that having separate caches for **travel packages** , **travel components** , and **travel** sub- **components** can allow a **travel** planning system to search the appropriate cache and respond to a customer's request for a **travel package** , **travel component** , or **travel** sub- **component** in substantially less time than it would take for the travel planning system to search...

...products configured for generating a cache of price and availability data that may be more **current** than the cache used in a conventional system, while at the same time reducing the...

...or availability information (or other relevant information) from a purchase or reservation request of a **travel** sub- **component** .

For example, as described above, when a customer is browsing a plurality of travel products...

...a travel planning system 11, the customer may find a travel product, such as a **travel** sub- **component** , that the customer would like to purchase or reserve. As mentioned previously, when the customer...
...used to provide search results. However, when the customer wishes to purchase or reserve a **travel package** or **component** , the system will poll the one or more reservation systems for **real - time** availability and pricing information. The customer may then request that the travel planning system 11...

...travel product. When a reservation or a purchase is requested from the reservation system 16, **real - time** price and availability information about the travel product is provided in the form of a...

...receipt received during or shortly after the purchase-24-AttyDktNo: 043474/343209 or reservation. This **real - time** information may then be received by the services interface 51 (e.g., by the travel...

...product cache 40.

In this regard, where the purchased or reserved travel product is a **travel** sub- **component** , the services interface 51 may communicate the information received form the purchase or the reservation...

...in the sub-component cache 42.
Furthermore, the purchase or reservation request will generally provide **real - time** price and/or availability information that is more **current** and accurate than the price and availability information stored in the cache. Thus, the information...

...component rules 45, as illustrated by block 560. For example, decrementing the number of available **travel** sub- **components** for a particular sub-component stored in the sub-component cache 42 may cause the component cache manager 53 to decrement the number of available **travel components** for any **travel component** in the **travel component** cache 43 whose availability is dependent upon the availability of the particular **travel** sub

component . Similarly, changes to the component cache 43 may then cause the system to update the...

...contain rules instructing the sub-component cache manger 52 as to how and when to **generate new sub- component** cache entries or how and when to otherwise refresh information stored in the component cache...

...that any of these changes to the sub-component cache 42 may be used to **generate** or **update** (in accordance with any **component** rules stored in the rules database 45) fare information for multi-city, round-trip, and ...

...44. In this way, such an embodiment may update price and availability information for many **travel components** and **travel packages** without polling the **travel** product system 16 since all of these updates may be based on one fare change...

...43 is updated based on information received from a purchase or reservation request for a **travel component** . As illustrated by blocks 550 and 555, the component cache manager 53 can also poll the travelfind information about new **travel components** and to update information in the component cache 43 that has not been recently updated...

...may contain rules instructing the component cache manger 53 as to how and when to **generate new component** cache entries or how and when to otherwise refresh information stored in the component cache 43. Furthermore, where component rules stored in the rules database 45 are used to generate **travel component** data from combinations of sub-component data, a change to the sub-component cache 42...

...block 558, where component rules stored in the rules database 45 are used to generate **travel component** data from combinations of sub-component data, a change to the component rules stored in...

...a reservation information.

In this way, the information in the cache 40 can stay substantially **current** without the travel product cache system 12 having to proactively poll the reservation system(s...

...cache 44 based on information received from a purchase or a reservation request for a **travel package** , as illustrated by block 570.

The changes made to the package cache 44 can also...

...cache 43 and, thereby, the sub-component cache 42. For example, the number of available **travel packages** for a certain type of **travel package** can be decremented by the number of purchased **travel packages** of that type.

Furthermore, since a **travel package** necessarily includes at least one **travel component** or **travel** sub- **component** , the number of available **travel components** or sub- **components** for the particular **travel components** or sub- **components** included in the package can be decremented in the component cache 43 or sub-component...

...42. Price information and other information received during the purchase or reservation request of a **travel package** can also be used to update the package, component, and sub-component caches.

As illustrated...

...cache manager 54 can also update the package cache 44 by determining out-of-date **travel package** entries.

For example, the package rules stored in the package rules cache 45 may indicate a predefined expiration date for a **travel package** or some discount used to generate the package price. The package cache manager 54 may be configured to make any-2 8-AttyDktNo: 043474/343209 expired **travel package** unavailable or to appropriately alter one or more packages after the expiration of a particular...

...illustrated by block 580, the package cache 44 can also be updated (i.e., existing **travel** packages can be changed and new **travel packages** can be added) based on changes to the package rules stored in the package rules...

Claim
... IS CLAIMED:

1. A system for generating and/or updating price and availability information of **travel packages**, each **travel package** comprising a combination of at least two **travel components**, the system comprising: a memory system configured for storing data; a component cache manager module...

...managing a component cache of price and availability information for each of a plurality of **travel components**, the **component** cache stored within the memory system; and a package cache manager module in operative communication...

...managing a package cache of price and availability information for each of a plurality of **travel packages**, the **package** cache stored within the memory system, wherein the package cache manager module is configured to...

...cache manager module is configured to update or generate price and availability information of a **travel package** in the **package** cache based on the change to the component cache.

2. The system of Claim 1...

...and configured for polling one or more travel product reservation systems in order to receive **current** price and availability information about one or more **travel components**, wherein the **component** cache manager module is configured to use the polling module to periodically update at least...

...cache based on information received from a purchase or reservation request for at least one **travel component**.

5. The system of Claim 2, wherein at least one of the one or more...

...cache based on information received from a purchase or reservation request for at least one **travel component** .

7. The system of Claim 1, wherein the package cache manager module is configured to...

...the package cache based on information received from the purchase or reservation request for a **travel package** .

8. The system of Claim 7, wherein the information received from a purchase or reservation request for a **travel package** is used to update the component cache.

9. The system of Claim 1, further comprising...

...a sub

component cache of price and availability information for each of a plurality of **travel** sub- **components** , the sub-component cache stored within the memory system, wherein the component cache manager module...

...manager module is configured to generate or update the price and availability information of a **travel component** in the **component** cache based on the change made to the sub-component cache.-32-AttyDktNo: 043474/343209...

...package rules, wherein the package rules are stored in the memory system, and wherein the **package** cache manager module generates or **updates travel packages** in the **package** cache according to the package rules.

11. The system of Claim 1, further comprising: a...

...receive, from a requesting entity, requests for price or availability information for one or more **travel components** or **travel packages** ; use the **component** cache manage module or the package cache manager module to search for the requested price...

...Claim 1, wherein the system is configured to provide price and availability information for a **travel** component or a **travel package** in response to a request from one or more online travel planning systems.

13. A method for generating and/or updating price and availability information of **travel packages** , each **travel package** comprising a combination of at least two **travel components** , the method comprising: providing a memory system configured for storing data; storing in the memory system a component cache of price and availability data for a plurality of **travel components** ; storing in the memory system a package cache of price and availability data for a plurality of **travel packages** ; and updating or generating price and availability information of a **travel package** in the **package** cache based on a change to the component cache.-33-AttyDktNo: 043474/343209

14. The...

...13, further comprising: polling one or more travel product reservation systems in order to receive **current** price and availability information about one or more **travel components** ; and updating or generating at least some of the price and availability information in the component cache based on the received **current** price and availability information.

15. The method of Claim 14, further comprising: polling one or...

...cache based on information received about a purchase or reservation request for at least one **travel component** .

17. The method of Claim 14, wherein at least one of the one or more...

...cache based on information received about a purchase or reservation request for at least one **travel component** .
19. The method of Claim 13, further comprising: updating the package cache based on information received about a purchase or reservation request for a **travel package** .

20. The method of Claim 19, further comprising: using the information received about a purchase or reservation request for a **travel package** to update the component cache.-34-AttyDktNo: 043474/343209

21. The method of Claim 13...

...memory system a sub-component cache of price and availability information for a plurality of **travel** sub- **components** ; and generating or updating price and availability information of a component in the component cache...

...comprising: storing a plurality of package rules in the memory system; and generating or updating **travel packages** in the **package** cache according to the package rules.

23. The method of Claim 13, further comprising: receiving, from a requesting entity, requests for price or availability information for one or more **travel components** or **travel packages** ; searching for the requested price or availability information in the component cache or the package...

...24. A computer program product for generating and/or updating price and availability information of **travel packages** , each **travel package** comprising a combination of at least two **travel components** , the computer program product comprising at least one computer-readable storage medium having computer-readable...

...a memory system a component cache of price and availability data for a plurality of **travel components** ; a second code logic configured for storing in the memory system a package cache of price and availability data for a plurality of **travel packages** ; and a third code logic configured for updating or generating price and availability information of...

...logic configured for polling one or more travel product reservation

systems in order to receive **current** price and availability information about one or more **travel components** ; and a fifth code logic configured for updating or generating at least some of the price and availability information in the component cache based on the received **current** price and availability information.
26. The computer program product of Claim 25, further comprising: a...

...cache based on information received about a purchase or reservation request for at least one **travel component** .

28. The computer program product of Claim 25, wherein at least one of the one...

...cache based on information received about a purchase or reservation request for at least one **travel component** .

30. The computer program product of Claim 24, further comprising: a fourth code logic configured...

...the package cache based on information received about a purchase or reservation request for a **travel package** .

31. The computer program product of Claim 30, further comprising:-36-AttyDktNo: 043474/343209 a...

...logic configured for using the information received about a purchase or reservation request for a **travel package** to update the component cache.

32. The computer program product of Claim 24, further comprising...

...memory system a sub

component cache of price and availability information for a plurality of **travel** sub

components ; and a fifth code logic configured for generating or updating price and availability information of...

...rules in the memory system; and a fifth code logic configured for generating or updating **travel packages** in the **package** cache according to the package rules.

34. The computer program product of Claim 24, further...

...receiving, from a requesting entity, requests for price or availability information for one or more **travel components** or **travel packages** ; a fifth code logic configured for searching for the requested price or availability information in...

22/3,K/3 (Item 2 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT

01345607 **Image available**

SYSTEM, METHODS AND COMPUTER PROGRAM PRODUCTS FOR OFFERING PRODUCTS BASED ON EXTRAPOLATION OF INPUTS
SYSTEME, PROCEDES ET PRODUITS LOGICIELS PERMETTANT D'OFFRIR DES PRODUITS FONDES SUR L'EXTRAPOLATION D'ENTREES
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Claims

English Abstract
...information provided by the consumer. For example, the system includes processes for generating or finding **travel packages** (706) with exactly matching **travel** dates and **destinations** supplied by the consumer. In addition, the system includes processes for varying the dates of travel by several days, or proximate weekends, and the **destination** of **travel** with nearby or regional destinations, so as to

generate or find additional travel options (710...

...theme of the consumer requested information and to use this theme to construct or find **travel packages** (716) with similar or matching themes.

Detailed Description
... for grouping products or services. Still more particularly, the invention relates to webbased techniques for **dynamically** assembling items including, but not limited to, last-minute **travel** and entertainment **packages** for purchase by consumers.
Description of Related Art
1. Consumer demand exists for last-minute...

...a demonstrated need to help the consumer plan immediate and last-minute travel.

2. ...but **current** offerings are insufficient.

Modern telecommunications services have transformed the travel industry by providing consumers instant...

...inventory offers a huge opportunity to increase efficiency, reduce waste and increase profits.

4. ...but **current** channels are inadequate
In choosing where to try to market their excess inventory, suppliers generally...

...a package is nothing new. For many years, travel agents have been putting together customized **vacation packages** for their clients, and travel discounters have been marketing prepaid vacations including transportation, hotel accommodations, and restaurant arrangements collected from different suppliers.

Today **travel** agents offer **vacation packages** over the World Wide Web, with booking and purchasing accomplished online. Making travel arrangements in...

...travel service providers simply do not have the capabilities to unleash demand for last-minute **travel** . Putting **packages** together quickly is extremely 1 5 difficult and time-consuming due to the enormous number...

...the widespread advances in communication capabilities, to effectively market close-to-expiring travel inventory in **real time** directly to consumers. Because the packaging of perishable, last-minute inventory is so time-sensitive...

...and improved method capable of
receiving and categorizing inventory and putting together packages on a **real - time** , **dynamic** basis.

5. Present invention solves last-minute travel problems of both consumers and suppliers
When...
...browsing appliance. The computer system includes a data storage

arrangement that stores descriptions of available **travel components** and at least one **travel package** template. A user interface element coupled to the network elicits at least one constraint from a consumer. A package engine **dynamically** - 6 generates at least one **travel package** based on the elicited consumer constraint, at least one **travel package** template, and at least one stored available **travel component** description. The **package** engine offers the generated **travel package** to the consumer by transmitting a description of the generated **travel package** over the decentralized computer network to the consumer's web browsing appliance.

Such a particularly...

...g., trip to London).

* A scalable, database-backed system automatically receives and processes distressed inventory **updates** from suppliers and screens available **components** to **generate** potential offers for consumers -- facilitating the creation of a large volume of creative, unique offers...

...romantic, wacky, etc.).
9 System provides ideas and makes suggestions to the consumer.

e System **dynamically** creates original content based on database contents.

e System checks availability before displaying an option...

...searching and retrieval. Advantageously - 10 then, the consumer can quickly receive a range of extrapolated **travel packages** from the entry of a minimum of information.

BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF...

...embodiment of a computer system
of the present invention configured to find or generate several **travel packages**
based on extrapolations of consumer selections-,
Figure 13 shows a schematic of an alternative date...

...network such as the Internet. Telecommunications paths 60 allow consumers 50 to interact on a **real - time , dynamic** basis with computer arrangement 300 from the consumers' homes. offices or other locations.

In this...

...the processes being performed by system 20. In this way, consumers 50 may interact in **real - time** with computer 300 to view and select options, purchase goods and/or services, request additional...

...the like. A database 400 stores information that is analyzed by an affinity algorithm to **dynamically** generate packages to be offered to the consumer for sale.

Back end interface 200 in...

...good value solutions and last minute planning. System 20 can present consumers 50 with an **interactive** user interface via appliances 52 that creates a last nfinute entry point for consumers focusedinventory and consumer constraints', **dynamically** creates a finite number of packages based on an affinity algorithm analysis. An example resulting...

...escapes, but rather displays a shorter list of weekend escapes that are - based upon the **current** database state - guaranteed to be available if the consumer immediately purchases the package.

In the...

...necessary tickets electronically or otherwise. In addition, system 20 updates its inventory database on a **real - time** , **dynamic** basis so that the next consumer is not offered inventory that is no longer available...

...once again to Figure 2B, system 20 is also capable of showing the consumer individual **components** of a **travel package** should the consumer be in the market for only airline tickets, hotel accommodations, or the...

...gives the consumer direct access to the database inventory of Rights available during the selected **time frame** . Upon selecting further options, the user might be presented with a list of available destination ...

...2A, the consumer could select a "local 5 flavor" option to cause system 20 to **dynamically** develop packages that do not involve travel. In this example, selecting the "local flavor" selection could bring UP, once again, a screen eliciting consumer constraints such as the **time frame** the consumer is interested in doing something (e.g., today, tomorrow, this weekend, or over the next week) (see Figure 2K). Upon selecting a **time frame** option, a "mood" selection display similar to that shown in Figure 2C can be presented...

...home page may result in a display such as that shown in Figure 2S listing **current** loyalty points, dream escapes, past purchases (with options to right of review), gift reminders, and...

...function that can invoke some or all of the activities described above. The example embodiment **package** authoring arrangement, **travel** and entertainment database(s) organized by type of experience, supplier relationships and interfaces, business-operations...

...also added to the database 400. In the manner described in detail below, packages are **dynamically** generated and offered to consumers 50 via web site 102. Upon purchase, system 20 purchases...

...The created package schema are stored into database 400. In the preferred example embodiment, through **real - time** interaction with a consumer 400, computer 300 elicits the consumer's mood and other constraints...

...based on distance in affinity space.

Blocks 266, 268 in one preferred embodiment are performed **dynamically** in **real - time** to produce a candidate set of packages which may then be presented to a consumer...

...system 20 uses additional pre-stored information in the forin of package schema 500 to **dynamically** assemble individual inventory components into a package.

In this example embodiment, a package schema consists...

...decision block 614), then control returns to block 606 and steps 606-612 are repeated (**iteratively**). If all element schema within the package scherna have been resolved ("no" exit to decision...within the space delimited by those requirements (Figure 913). The Figure 9B process is performed **dynamically** in **real - time** based upon inventory currently available within database 400 in the preferred embodiment. These return package...

...used to contrast with packages determined through the system by extrapolation. Exact matches are those **travel packages** are those **packages** that most closely resemble the request by a consumer, while extrapolated matches are those packages...

...determined algorithmically using distance, travel time, convenience, weather or other factors to determine new regions **dynamically** or independent of human intervention.

Regardless of how they are determined, these regional destinations are...

Claim
1 A computer system for providing a wide range of **travel packages** to a consumer based on limited entry of information, said computer system comprising:
data storage comprising travel information use for generation of **travel packages** ;
a **travel package** matching system in communication with said data storage, said **travel package** matching system configured to provide a selection of substantially matching **travel packages** to the consumer based on limited travel selection data including a date of **travel** and a **destination** location stored in a
memory; and
an extrapolative matching system in communication with said data...

...said extrapolative matching system configured to extract a theme from the selection of substantially matching **travel packages** and to generate a selection of extrapolative **travel packages** based on the theme.

2 A computer system according to Claim 1, ftirther comprising:
a truncation system configured to reduce the selection of extrapolative **travel packages** , said truncation system uses pruning criteria stored in the memory of the computer system, wherein...

...rating, wherein said truncation system uses the priming criteria to

reduce the number of extrapolative **travel packages** .

4 A computer system according to Claim 3, wherein the stored pruning criteria includes each...

...rating, wherein said truncation system uses the pruning criteria to reduce the number of extrapolative **travel packages** . - 40 . A computer system according to Claim 4, wherein the limited travel selection data are...

...a group consisting of a departure date, a return date, a departure location and the **destination** location and said **travel package** matching system provides a selection of substantially matching **travel packages** to the consumer based on the limited travel selection data.

6 A computer system according...

...system includes at least one of
a nearby destination identification system configured to provide extrapolative **travel packages** having a common airport;
1 5 a regional destination identification system configured to provide extrapolative **travel packages** within a same region;
a theme extraction system configured to extract a theme from the selection of exactly matching **travel packages** ; or
a theme identification system configured to provide extrapolative **travel packages** having a same theme as the matching **travel package** .

8 A computer system for providing a wide range **travel packages** to a consumer based on limited entry of information, said computer system comprising:
a **travel package** matching system configured to provide a selection of substantially matching **travel packages** to the consumer based on limited travel
selection data including a date of **travel** and a **destination** location;
an extrapolative matching system configured to generate a selection of extrapolative **travel packages** based on the selection of substantially matching
travel packages ; and
a truncation system configured to reduce the selection of extrapolative **travel packages** using pruning criteria stored in a memory of the - 41 computer system, wherein the stored...

...system includes at least one of:
a nearby destination identification system configured to provide extrapolative **travel packages** having a cominon airport;
a regional destination identification system configured to provide extrapolative **travel packages** within a same region;
0 a theme extraction system configured to extract a theme from the selection of substantially matching **travel packages** ; or
a theme identification system configured to provide extrapolative **travel packages** having a same theme as the substantially matching **travel package** .
5 10. A computer system according to Claim 9, further comprising a cache storing a plurality of pre-constructed **travel packages** searchable by the systems for providing the substantially matching and

extrapolative **travel packages** .

11 A computer system according to Claim 9, wherein the theme extraction system is configured...

...A computer system according to Claim 9, wherein each of the systems configured to provide **travel packages** is configured to assemble the **travel packages** using an affinity algorithm.

13 A method for providing a wide range of **travel packages** to a consumer based on limited entry of information, said method comprising: storing in memory limited travel selection data including a date of **travel** and a **destination** location from the consumer; providing a selection of substantially matching **travel packages** to the consumer based on the limited travel selection data; - 42 extracting a theme from the selection of substantially matching **travel packages** ; and providing a selection of extrapolative **travel packages** to the consumer based on the theme. 5

14 A method according to Claim 13...

...pruning criteria independent of the limited travel selection data; and truncating the selection of extrapolative **travel packages** using the pruning criteria.

15 A method according to Claim 14, wherein determining the pruning...

...screen size of the display used by the consumer and truncating the selection of extrapolative **travel packages** includes truncating the selection of extrapolative packages to fit the screen size.

16 A method according to Claim 15, wherein truncating the selection of extrapolative **travel packages** includes eliminating duplications.

17 A method according to Claim 13, wherein providing the selection of extrapolative **travel packages** includes providing the selection of extrapolative **packages** independent of additional **travel** selection data from the consumer.

I S. A method according to Claim 17, wherein storing...

...19 A method according to Claim 17, wherein extracting a theme from the exactly matching **travel packages** includes identifying a trend in affinity ratings of the substantially matching **travel packages** . - 43 . A computer program product for providing a wide range of **travel packages** to a consumer based on limited entry of infon-nation, the computer program product comprising...

...first executable portion for storing into memory limited travel selection data including a date of **travel** and a **destination** location from the consumer; a second executable portion for providing a selection of substantially matching **travel packages** to the consumer based on the

limited travel
selection data;
a third executable portion for extracting a theme from the selection
of subtantially matching **travel packages** ; and
a fourth executable portion for providing a selection of extrapolative
1 5 **travel packages** to the consumer based on the theme.

21 A computer program product according to Claim...

...pruning criteria independent of the limited travel selection data and
truncating the selection of extrapolative **travel packages** using the
pruning criteria.

22 A computer program product according to Claim 21, further
comprising...
...Claim 23, further
comprising an eighth executable portion for providing the selection of
- 44 extrapolative **packages** independent of additional **travel**
selection data from the consumer.

25 A computer program product according to Claim 24, flirther...

...a tenth executable portion for identifying a trend in affinity ratings
of the exactly matching **travel packages** and using the trend to
determine the theme. 45

22/3,K/4 (Item 1 from file: 350)
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WPI ACC NO: 2008-M31611/200872
XRPX Acc No: N2008-906521
System for generating and/or updating price and availability information of travel packages **, has manager module which** updates **or** generates **price and availability information of** travel package **in cache based on change to component cache**
Patent Assignee: TRAVELOCITY.COM LP (TRAV-N)
Inventor: HARTMANN J; WEBBY R; YONG D
Patent Family (2 patents, 121 countries)

Patent			Application			
Number	Kind	Date	Number	Kind	Date	Update
US 20080262878	A1	20081023	US 2007736291	A	20070417	200872 B
WO 2008131068	A1	20081030	WO 2008US60580	A	20080417	200874 E

Priority Applications (no., kind, date): US 2007736291 A 20070417

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 20080262878	A1	EN	18	5	
WO 2008131068	A1	EN			

National Designated States,Original: AE AG AL AM AO AT AU AZ BA BB BG BH BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM DO DZ EC EE EG ES FI GB GD GE GH GM GT HN HR HU ID IL IN IS JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LY MA MD ME MG MK MN MW MX MY MZ NA NG NI NO NZ OM PG PH PL PT RO RS

RU SC SD SE SG SK SL SM SV SY TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW
Regional Designated States,Original: AT BE BG BW CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HR HU IE IS IT KE LS LT LU LV MC MT MW MZ NA NL NO OA PL PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW

System for generating and/or updating price and availability information of travel packages **, has manager module which** updates **or** generates **price and availability information of** travel package **in cache based on change to component cache**

Original Titles:
...COMPUTER PROGRAM PRODUCTS FOR GENERATING AND UPDATING A CACHE OF PRICE AND AVAILABILITY INFORMATION FOR **TRAVEL PACKAGES** AND **COMPONENTS**
...

...COMPUTER PROGRAM PRODUCTS FOR GENERATING AND UPDATING A CACHE OF PRICE AND AVAILABILITY INFORMATION FOR **TRAVEL PACKAGES** AND **COMPONENTS**

Alerting Abstract ...and for managing a package cache of price and availability information for each of the **travel packages** . The **package** cache is stored within the memory system. The package cache manager module receives an indication of a change made to price and availability information in the **component** cache and **updates** or **generates** price and availability information of a **travel package** in the **package** cache based on the change to the component cache....a method for generating and/or updating price and availability information of **travel packages** ; and a computer program product for generating and/or updating price and availability information of **travel packages** .
...

...USE - System for generating and/or updating price and availability information of **travel packages** and **travel components** .
...

...Provides system for generating a cache of price and availability data that may be more **current** than the cache used in a conventional system, while at the same time reducing the...

...information from the travel product reservation system(s). Updates price and availability information for many **travel components** and **travel packages** without polling the **travel** product system since all of the updates may be based on one fare change received...

...10 System for generating and/or updating price and availability information of **travel packages**

Class Codes
International Classification (+ Attributes)
IPC + Level Value Position Status Version
G01C-0021/34 ...
G01C-0021/34 ...

Original Publication Data by Authority

Argentina

Assignee name & address:
Original Abstracts:
...generating, updating, and managing a cache of price and availability information for a plurality of **travel packages** and **components** . The cache of price and availability information may then be searched by an online travel...

...provide a cascading cache system including a cache of price and availability data related to **travel components** and a cache of price and availability data related to **travel packages** . Changes made to the component cache can affect information stored in the package cache, and...

...generating, updating, and managing a cache of price and availability information for a plurality of **travel packages** and **components** . The cache of price and availability information may then be searched by an online travel...
...provide a cascading cache system including a cache of price and availability data related to **travel components** and a cache of price and availability data related to **travel packages** . Changes made to the component cache can affect information stored in the package cache, and...
Claims:
...is claimed: 1 . A system for generating and/or updating price and availability information of **travel packages** , each **travel package** comprising a combination of at least two **travel components** , the system comprising: a memory system configured for storing data; a component cache manager module...

...managing a component cache of price and availability information for each of a plurality of **travel components** , the **component** cache stored within the memory system; and a package cache manager module in operative communication...

...managing a package cache of price and availability information for each of a plurality of **travel packages** , the **package** cache stored within the memory system, wherein the package cache manager module is configured to...

...cache manager module is configured to update or generate price and availability information of a **travel package** in the **package** cache based on the change to the component cache.
? **23/3,K/1 (Item 1 from file: 349)**
DIALOG(R)File 349:PCT FULLTEXT
(c) 2009 WIPO/Thomson. All rts. reserv.

00858331
METHODS AND APPARATUS FOR MANAGING A TOUR PRODUCT PURCHASE
PROCEDE ET APPAREIL POUR LA GESTION D'UN ACHAT DE PRODUIT TOURISTIQUE
Patent Applicant/Assignee:
PAN TRAVEL LLC, Panda Building, 1017 Kapahula Avenue, Honolulu, HI 96816, US, US (Residence), US (Nationality), (For all designated states except: US)
Patent Applicant/Inventor:
AMONG Frank , Pan Travel, LLC, Panda Building, 1017 Kapahulu Avenue, Honolulu, HI 96816, US, US (Residence), US (Nationality), (Designated

only for: US)
FREITAS Jeffrey , Pan Travel, LLC, Panda Building, 1017 Kapahulu Avenue, Honolulu, HI 96816, US, US (Residence), US (Nationality), (Designated only for: US)
Legal Representative:
BERNSTEIN Howard L (et al) (agent), Sughrue, Mion, Zinn, Macpeak & Seas, PLLC, 2100 Pennsylvania Ave., N.W., Suite 800, Washington, DC 20037-3213, US,
Patent and Priority Information (Country, Number, Date):
Patent: WO 200190992 A2 20011129 (WO 0190992)
Application: WO 2001US10818 20010517 (PCT/WO US0110818)
Priority Application: US 2000205559 20000522
Designated States:
(Protection type is "patent" unless otherwise stated - for applications prior to 2004)
AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW
(EA) AM AZ BY KG KZ MD RU TJ TM
Publication Language: English
Filing Language: English
Fulltext Word Count: 11172

Patent Applicant/Inventor:
AMONG Frank , ...

...Designated only for: US)
FREITAS Jeffrey ,
Legal Representative:
Fulltext Availability:
Detailed Description
Claims

Detailed Description
... In a prior art tour product purchasing process, tour products are purchased direct1y from a **travel** ageney or a **tour** wholesaler without automation. A buyer inquires about a desired destination and provides infonnation for desired components, including travel dates, preferred airline, flight times, hotel, and car company. The **travel** agency or the **tour** wholesaler then attempts to manually asserable the varying components based on price to produce a complete **package** . The **travel** ageney or **tour** wholesaler must then M'anually deterinine if the inventory of individual componcnts is available for...

...parameters have been chosen. However, the prior art process must: be repeated manually by the **travel** agency or **tour** wholesaler each time a buyer alters a value of a parameter of any component to...to explain the principles of the drawings.

Figure 1 illustrates a system for managing a **travel tour package** according to a preferred

embodiment of the present invention;
Figure 2 illustrates a system for...invention allows timely and fresh data to be available for anyone wishing to purchase a **travel package** . Accordingly, only products that are actually available are displayed.

For example, if a suboption such...

Claim
... suboption comprising one of a hotel room, a vehicle rental, an air transportation ticket, a **travel tour** and a **travel** service or a product.

10 The method of claim 1, wherein said providing step "her...

...room type, hotel classification, hotel chain and. hotel rating; and. said reservation options comprising surface **tours** , **travel** insurance, luggage, clothing, video entertainment, audio entertainment and food products.

13 The method of claim...further comprising said vendor selling at least one of hotel rooms, vehicle rentals, air transportation, **travel tours** and activities.

25 The method of claim 14, farther comprising said server storing said final...

...hotel rating; and. said parameter for said reservation options comprises at least: one of surface **tours** , **travel** insurance, luggage, clothing, video entertainment, audio entertainment and food products.

33 A method of purchasing...

...suboption comprising at least one of a hotel room, a vehicle rental, air transportation, a **travel tour** and a **travel** product or service.

42 The method of claim 33, further comprising one of said third...43, wherein said parameter infonnation for said reservation options comprises at least one of surface **tours** , **travel** insurance, luggage, clothing, video entertainment, audio entertainment and food products.

48 The method of claim...

...said user-provided parameter infonnation for said reservation options comprises at least one of surface **tours** , **travel** insurance, luggage, clothing, video entertainment, audio entertainment and food products.

66 The system of claini...suboption comprising one of a hotel room, a vehicle rental, an air transportation ticket, a **travel tour** and a **travel** product/service item.
82 The client system. of clann 71, further comprising a third input...

...claim. 83. wherein said parameters for said reservation options comprise at least: one of surface **tours** , **travel** insurance, luggage, clothing, video entertainment, audio entertainment and food products.

88 The client system of...

...at least one of a hotel room, a vehicle rental, an air transportation ticket, a **travel tour** and a **travel** product/service item. 103. The systeni of claim 89, said plurality of components comprising ...103, wherein said parameter information for said reservation options comprises at least one of surface **tours , travel** insurance, luggage, clothing, video entertainment, audio entertainment and food products. 108. The system of claim...

...of claim 121, said one suboption comprising one of hotel rooms, vehicle rentals, air transportation, **travel tours** and items. 123. The server system of claim 113, farther comprising a third-party central...

...hotel chain; and
said parwneter for said reservation. options comprises at least one of surface **tours , travel** insurance, luggage, clothing, video entertainment, audio entertainment and food products. 130. ...parameter information for said reservation options comprises a field for at least one of surface **tours , travel** insurance, luggage, clothing, video entertainment, audio entertainment and food products. 139. The user interface of...

...of said plurality of properties comprisinE a hotel room, a vehicle rental, air transportation, a **travel tour** and a **travel** product/service. 145. The method of claim. 140, further comprising sending a confinnation comprising one...

YOUR CASE

23/3,K/2 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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0011126214 - Drawing available
WPI ACC NO: 2002-062582/200208
XRPX Acc No: N2002-046451
Apparatus for managing a travel tour **product purchase that permits buyers to select a final option including customized components of a tour on line**
Patent Assignee: AMONG F (AMON-I); FREITAS J (FREI-I); PAN TRAVEL CO LLC (PANT-N); PAN TRAVEL LLC (PANT-N)
Inventor: **AMONG F ; FREITAS J**
Patent Family (3 patents, 94 countries)

Patent Number	Kind	Application Date	Number	Kind	Date	Update
WO 2001090992	A2	20011129	WO 2001US10818	A	20010517	200208 B
AU 200162926	A	20011203	AU 200162926	A	20010517	200221 E
US 20030110063	A1	20030612	WO 2001US10818	A	20010517	200340 E
			US 200231405	A	20020118	

Priority Applications (no., kind, date): US 2000205559 P 20000522; US 200231405 A 20020118

Patent Details

Number Kind Lan Pg Dwg Filing Notes
WO 2001090992 A2 EN 50 6
National Designated States,Original: AE AG AL AM AT AU AZ BA BB BG BR BY
BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID
IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ
NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA
ZW
Regional Designated States,Original: AT BE CH CY DE DK EA ES FI FR GB GH
GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW
AU 200162926 A EN Based on OPI patent WO 2001090992
US 20030110063 A1 EN PCT Application WO 2001US10818

Apparatus for managing a travel tour **product purchase that permits buyers to select a final option including customized components of a...**
Inventor: **AMONG F** ...

... **FREITAS J**

Alerting Abstract ...USE - Managing a **travel tour** product purchase...

...ADVANTAGE - Allowing customization of **travel tour** .

Original Publication Data by Authority

Argentina

Assignee name & address:
Inventor name & address:
Among, Frank ...

... **Freitas, Jeffrey** ...

... **AMONG, Frank** ...

... **FREITAS, Jeffrey**
Examiner:
?

IV. Text Search Results from Dialog

A. NPL Files, Abstract

File 2:INSPEC 1898-2009/Mar W2
(c) 2009 Institution of Electrical Engineers
File 35:Dissertation Abs Online 1861-2009/Feb
(c) 2009 ProQuest Info&Learning
File 65:Inside Conferences 1993-2009/Mar 19
(c) 2009 BLDSC all rts. reserv.
File 99:Wilson Appl. Sci & Tech Abs 1983-2009/Feb
(c) 2009 The HW Wilson Co.
File 474:New York Times Abs 1969-2009/Mar 20
(c) 2009 The New York Times
File 475:Wall Street Journal Abs 1973-2009/Mar 19
(c) 2009 The New York Times
File 583:Gale Group Globalbase(TM) 1986-2002/Dec 13
(c) 2002 Gale/Cengage

Set Items Description
S1 2094 (TRAVEL OR VACATION)(3N)(PACKAGE OR PACKAGES OR TOUR OR TOURS)
S2 167 TRAVEL(3N)COMPONENT??
S3 86 TRAVEL(3N)(ITINERARY OR ITINERARIES)
S4 615 TRAVEL(3N)DESTINATION??
S5 745 (PACKAGE OR PACKAGED)(3N)(TOUR OR TOURS)
S6 119 (S1:S5)(5N)(MULTIPLE OR MULTI OR MULTIPL? OR MANY OR SEVERAL OR PLURAL? OR VARIOUS OR NUMEROUS OR DIFFERENT)
S7 1 S6(5N)(RECOMBIN? OR COMBINE OR COMBINES OR COMBINING OR MIX OR MIXES OR MIXING)
S8 5 S6(5N)(SELECT??? OR CHOOS? OR IDENTIF? OR DETERMIN?)
S9 0 S6(5N)(MANIPULAT? OR COMPARE OR COMPARES OR COMPARING OR -COMPARISON??)
S10 0 S6(5N)(PERSONALIZ? OR PERSONALIS? OR CUSTOMIS? OR CUSTOMIZ? OR TAILOR?)
S11 31316 (NEW OR FINAL)(5N)(COMPONENT?? OR PACKAGE?? OR ITINERAR???? OR ARRANGEMENT??)
S12 14233 (MODIF? OR UPDAT? OR EXPAND? OR ALTER?)(5N)(COMPONENT?? OR PACKAGE?? OR ITINERAR???? OR ARRANGEMENT??)
S13 649 (S11 OR S12)(5N)(CREAT? OR GENERATE OR GENERATES OR GENERATING)
S14 3114916 (INTERACTIVE OR INTERACTIV? OR ITERATIVE? OR BACK()FORTH OR BACKWARD()FORWARD OR DYNAMIC? OR CURRENT OR TIME()FRAME? OR -DYNAMIC OR REALTIME OR REAL()TIME OR SIMULTANEOUS? OR LIVE)
S15 595 AU=(AMONG, F? OR AMONG F? OR FREITAS, J? OR FREITAS J? OR -FRANK(2N)AMONG OR JEFFREY(2N)FREITAS)
S16 0 (S7:S10) AND S13
S17 1 (S7:S10) AND S14
S18 3568 (S1:S5)
S19 2 S18 AND S13
S20 2 S19 NOT S17

S21 252 S18 AND S14
S22 156 S21 NOT PY>2000
S23 4 S22 AND (RECOMBIN? OR COMBINE OR COMBINES OR COMBINING OR - MIX OR MIXES OR MIXING)
S24 4 RD (unique items)
S25 0 S15 AND S1
S26 0 S15 AND TRAVEL
?

17/3,K/1 (Item 1 from file: 2)
DIALOG(R)File 2:INSPEC
(c) 2009 Institution of Electrical Engineers. All rts. reserv.

03808243 INSPEC Abstract Number: C87012624
Title: A 4GL environment increases travel wholesaler's productivity
Author(s): Viau, P.
Journal: Hardcopy vol.6, no.10 p.171-2, 175, 177-8
Publication Date: Oct. 1986 Country of Publication: USA
CODEN: HRDCEJ ISSN: 0279-8123
Language: English
Subfile: C

...Abstract: travel agents. It acquires services from a variety of suppliers, and coordinates them into comprehensive **vacation packages**, **combining** as **many** as 60 **different** services to develop one unique tour. It's hardware/software configuration provides online **realtime** tracking of tour sales and inventory control.
...Identifiers: online **realtime** tracking...
?

20/3,K/1 (Item 1 from file: 2)
DIALOG(R)File 2:INSPEC
(c) 2009 Institution of Electrical Engineers. All rts. reserv.

07109081 INSPEC Abstract Number: A9902-9850-072
Title: Millimeter VLBI observations of the gamma-ray blazar NRAO 530
Author(s): Bower, G.C.
Author Affiliation: Radio Astron. Lab., California Univ., Berkeley, CA, USA
Journal: Astronomical Society of the Pacific Conference Series
Conference Title: Astron. Soc. Pac. Conf. Ser. (USA) vol.144 p.41-2
Publisher: Astron. Soc. Pacific,
Publication Date: 1998 Country of Publication: USA
ISSN: 1050-3390
SICI: 1050-3390(1998)144L.41:MVOG;1-9
Material Identity Number: M537-98018
Conference Title: Radio Emission from Galactic and Extragalactic Compact Sources. IAU Colloquium 164
Conference Sponsor: Comm. 28 (Galaxies); Int. Astron. Union; URSI; Nwe Mexico Inst. Mining & Technol.; et al
Conference Date: 21-26 April 1997 Conference Location: Socorro, NM, USA
Language: English
Subfile: A
Copyright 1998, FIZ Karlsruhe

...Abstract: of the parsec scale jet in this source during the brightest flare in 3 decades. **New** jet **components** were **created** during the flare and are probably related to an increase in gamma-ray activity. The **components travel** at superluminal velocities, further confirming the connection between superluminal sources and gamma-ray blazars. The...

20/3,K/2 (Item 1 from file: 583)
DIALOG(R)File 583:Gale Group Globalbase(TM)
(c) 2002 Gale/Cengage. All rts. reserv.

06086063
S'pore-Aussie boost for tourism
SINGAPORE: TOURISM TIE-UP WITH AUSTRALIA
The Straits Times (XBB) 7 December 1994 p.5
Language: ENGLISH

... contribute financially to the advertising campaign over television and the print media. They will also **create** special wholesale **travel packages** to Sydney and **New** South Wales.
? **24/3,K/1 (Item 1 from file: 2)**
DIALOG(R)File 2:INSPEC
(c) 2009 Institution of Electrical Engineers. All rts. reserv.

07152433 INSPEC Abstract Number: A1999-05-9135-014
Title: Seismological structure of the upper mantle: a regional comparison of seismic layering
Author(s): Gaherty, J.B.; Kato, M.; Jordan, T.H.
Author Affiliation: Dept. of Earth Atmos. & Planetary Sci., MIT, Cambridge, MA, USA
Journal: Physics of the Earth and Planetary Interiors vol.110, no.1-2 p.21-41
Publisher: Elsevier,
Publication Date: Jan. 1999 Country of Publication: Netherlands
CODEN: PEPIAM ISSN: 0031-9201
SICI: 0031-9201(199901)110:1/2L..21:SSUM;1-K
Material Identity Number: P062-1999-002
U.S. Copyright Clearance Center Code: 0031-9201/99/$20.00
Language: English
Subfile: A
Copyright 1999, IEE

...Abstract: younger (~40 Ma) Philippine Sea plate, and Precambrian western Australia. These models were constructed by **combining** two data sets: ScS-reflectivity profiles, which provide travel times and impedance contrasts across mantle discontinuities, and observations of frequency-dependent **travel** times of three- **component** turning (S, sS, SS, sSS, SSS, Sa) and surface (R/sub 1/, G/sub 1...

...discontinuities. The models provide a better fit to observed seismograms from these regions than the **current** generation of global tomographic models.

24/3,K/2 (Item 2 from file: 2)
DIALOG(R)File 2:INSPEC

(c) 2009 Institution of Electrical Engineers. All rts. reserv.

03808243 INSPEC Abstract Number: C87012624
Title: A 4GL environment increases travel wholesaler's productivity
Author(s): Viau, P.
Journal: Hardcopy vol.6, no.10 p.171-2, 175, 177-8
Publication Date: Oct. 1986 Country of Publication: USA
CODEN: HRDCEJ ISSN: 0279-8123
Language: English
Subfile: C

...Abstract: growing firm like Tour Alaska Inc. of Mercer Island, Wash., reaches for a replacement-quickly. **Tour** Alaska is a **travel** wholesaler, the middleman between suppliers of travel services and retail travel agents. It acquires services from a variety of suppliers, and coordinates them into comprehensive **vacation packages**, **combining** as many as 60 different services to develop one unique tour. It's hardware/software configuration provides online **realtime** tracking of tour sales and inventory control.
...Identifiers: **vacation packages**; ...

...online **realtime** tracking

24/3,K/3 (Item 3 from file: 2)
DIALOG(R)File 2:INSPEC
(c) 2009 Institution of Electrical Engineers. All rts. reserv.

02484135 INSPEC Abstract Number: A80033710
Title: Optimization of continuous wave nuclear magnetic resonance to determine in situ volume fractions and individual flow rates in two component mixtures
Author(s): Aboucl wafa, M.S.A.; Kendall, E.J.M.
Author Affiliation: Dept. of Electrical Engng., Univ. of Calgary, Calgary, Alta., Canada
Journal: Review of Scientific Instruments vol.50, no.12 p.1545-9
Publication Date: Dec. 1979 Country of Publication: USA
CODEN: RSINAK ISSN: 0034-6748
Language: English
Subfile: A

...Abstract: measuring system is discussed and the analytical and experimental results are compared for oil-water **mixes**. The use of a relatively long polarizing magnet prior to the highly homogeneous detector magnet...

...H/sub 1/, or the RF level required to produce that optimum value, and by **simultaneously** measuring the magnitude of the signal at that time, both the in situ volume fraction...
... can be determined. This is provided that there is no chemical reaction between the two **components** and that they **travel** at the same average velocity. The system may be also used for monitoring changes in...

24/3,K/4 (Item 1 from file: 35)
DIALOG(R)File 35:Dissertation Abs Online

(c) 2009 ProQuest Info&Learning. All rts. reserv.

01629748 ORDER NO: AAD98-22736
BACKGROUND VELOCITY ESTIMATION, AVO INVERSION AND FULL WAVEFORM INVERSION FOR HORIZONTALLY STRATIFIED MEDIA: A DIVIDE-AND-CONQUER APPROACH
Author: XIA, GANYUAN
Degree: PH.D.
Year: 1997
Corporate Source/Institution: THE UNIVERSITY OF TEXAS AT AUSTIN (0227)
Source: VOLUME 59/01-B OF DISSERTATION ABSTRACTS INTERNATIONAL.
PAGE 138. 217 PAGES

...of seismic velocity at different wavelengths suggests an approach that decomposes the waveform data into **travel** time and amplitude **components** . Therefore I propose a divide-and-conquer approach to the waveform inversion problem, where I...

...velocity from the travel time and the rapidly changing perturbations from the amplitude, and then **combine** the perturbation with the background to obtain a starting model to be used for the...

...S-wave velocity and density, again using either a non-linear optimization method or an **iterative** linearized solution. Application of the inversion algorithm to synthetic data from an 84-layer model...
?

B. NPL Files, Full-text

File 9:Business & Industry(R) Jul/1994-2009/Mar 18
(c) 2009 Gale/Cengage
File 16:Gale Group PROMT(R) 1990-2009/Feb 27
(c) 2009 Gale/Cengage
File 20:Dialog Global Reporter 1997-2009/Mar 20
(c) 2009 Dialog
File 15:ABI/Inform(R) 1971-2009/Mar 19
(c) 2009 ProQuest Info&Learning
File 148:Gale Group Trade & Industry DB 1976-2009/Mar 06
(c) 2009 Gale/Cengage
File 160:Gale Group PROMT(R) 1972-1989
(c) 1999 The Gale Group
File 275:Gale Group Computer DB(TM) 1983-2009/Feb 24
(c) 2009 Gale/Cengage
File 610:Business Wire 1999-2009/Mar 20
(c) 2009 Business Wire.
File 613:PR Newswire 1999-2009/Mar 20
(c) 2009 PR Newswire Association Inc
File 621:Gale Group New Prod.Annou.(R) 1985-2009/Feb 13
(c) 2009 Gale/Cengage
File 636:Gale Group Newsletter DB(TM) 1987-2009/Feb 26
(c) 2009 Gale/Cengage
File 624:McGraw-Hill Publications 1985-2009/Mar 20

(c) 2009 McGraw-Hill Co. Inc
File 634:San Jose Mercury Jun 1985-2009/Mar 18
(c) 2009 San Jose Mercury News
File 810:Business Wire 1986-1999/Feb 28
(c) 1999 Business Wire
File 813:PR Newswire 1987-1999/Apr 30
(c) 1999 PR Newswire Association Inc

Set Items Description
S1 136216 (TRAVEL OR VACATION)(3N)(PACKAGE OR PACKAGES OR TOUR OR TOURS)
S2 3435 TRAVEL(3N)COMPONENT??
S3 11443 TRAVEL(3N)(ITINERARY OR ITINERARIES)
S4 57140 TRAVEL(3N)DESTINATION??
S5 27354 (PACKAGE OR PACKAGED)(3N)(TOUR OR TOURS)
S6 6891 (S1:S5)(5N)(MULTIPLE OR MULTI OR MULTIPL? OR MANY OR SEVERAL OR PLURAL? OR VARIOUS OR NUMEROUS OR DIFFERENT)
S7 43 S6(5N)(RECOMBIN? OR COMBINE OR COMBINES OR COMBINING OR MIX OR MIXES OR MIXING)
S8 220 S6(5N)(SELECT??? OR CHOOS? OR IDENTIF? OR DETERMIN?)
S9 43 S6(5N)(MANIPULAT? OR COMPARE OR COMPARES OR COMPARING OR COMPARISON??)
S10 66 S6(5N)(PERSONALIZ? OR PERSONALIS? OR CUSTOMIS? OR CUSTOMIZ? OR TAILOR?)
S11 672545 (NEW OR FINAL)(5N)(COMPONENT?? OR PACKAGE?? OR ITINERAR???? OR ARRANGEMENT??)
S12 164132 (MODII? OR UPDAT? OR EXPAND? OR ALTER?)(5N)(COMPONENT?? OR PACKAGE?? OR ITINERAR???? OR ARRANGEMENT??)
S13 19032 (S11 OR S12)(5N)(CREAT? OR GENERATE OR GENERATES OR GENERATING)
S14 24825407 (INTERACTIVE OR INTERACTIV? OR ITERATIVE? OR BACK()FORTH OR BACKWARD()FORWARD OR DYNAMIC? OR CURRENT OR TIME()FRAME? OR DYNAMIC OR REALTIME OR REAL()TIME OR SIMULTANEOUS? OR LIVE)
S15 1 AU=(AMONG, F? OR AMONG F? OR FREITAS, J? OR FREITAS J? OR FRANK(2N)AMONG OR JEFFREY(2N)FREITAS)
S16 365 S7:S10
S17 0 S16(S)S13
S18 25 S16(S)S14
S19 5 S18 NOT PY>2000
S20 1 RD (unique items)
S21 217341 S1:S5
S22 144 S21(S)S13
S23 19 S22(S)S14
S24 5 S23 NOT PY>2000
S25 3 RD (unique items)
?

20/3,K/1 (Item 1 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2009 Gale/Cengage. All rts. reserv.

06665240 Supplier Number: 55887883 (USE FORMAT 7 FOR FULLTEXT)
PSAINC Selects INTERVU Inc. to Deliver Streaming Media to its PSAZZ.com

E-Commerce Travel Website.
PR Newswire, p4582
Sept 28, 1999
Language: English Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 532

... a leading Internet search engine that provides nationwide yellow pages and white pages, advertisements, real- **time** stock quotes, business and event information.
PSAINC"s pending acquisition of Pyramid Media Group will...

25/3,K/1 (Item 1 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2009 Gale/Cengage. All rts. reserv.

06558377 Supplier Number: 55421582 (USE FORMAT 7 FOR FULLTEXT)
Travelzoo.com Launches "Travel Interactively With Alicia'.
PR Newswire, p7175
August 12, 1999
Language: English Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 399

... on a journey through ten Asian and European countries.
An innovative navigation interface allows "Travel **Interactively** With Alicia" users to create their own customized travel experiences. A user may opt to...

...of her many other destinations. This state-of-the-art navigation design allows users to **create** dozens of personalized **travel itineraries**, enhanced with Alicia's continually **updated** digital photos, travel writings, and interviews.
"Interactive travel not only transports users from their computers...

25/3,K/2 (Item 1 from file: 20)
DIALOG(R)File 20:Dialog Global Reporter
(c) 2009 Dialog. All rts. reserv.

01267923
TUI switches to organised tours (Umsteigen auf organisierte Reisen)
HANDELSBLATT, p21
March 30, 1998
JOURNAL CODE: FHBT LANGUAGE: German RECORD TYPE: ABSTRACT
WORD COUNT: 136

... not change the operative independence of TUI. The new grouping could offer synergy opportunities.The **current** year has begun well. Meanwhile, for 1996/97, consolidated group turnover rose by 10.5...

25/3,K/3 (Item 1 from file: 624)
DIALOG(R)File 624:McGraw-Hill Publications
(c) 2009 McGraw-Hill Co. Inc. All rts. reserv.

01125954

Delta Begins Test of Small-Business Travel Internet Site
Aviation Daily, Vol. 342, No. 35, Pg 6
November 17, 2000
JOURNAL CODE: AD
ISSN: 0193-4597
WORD COUNT: 157

TEXT:

... traveler. The product was first unveiled in April and the airline hopes to have it **live** by the summer, but is now starting to test the product with 250 companies in...

... travel functions, including the ability for small-business customers to book travel for other travelers, **modify travel** itineraries online and **create** user-defined reports summarizing company travel.

TABLE:
?
15/3,K/1 (Item 1 from file: 15)
DIALOG(R)File 15:ABI/Inform(R)

03392456 1480060731
Mercury Exposure Assessment: Testing a work practice for cleaning up broken fluorescent bulbs
Grover, Terry L; Vidich, Charles; Hennessey, James; **Freitas, John** ; Mueller, M Douglas
Professional Safety v52n12 PP: 39-45 Dec 2007
ISSN: 0099-0027 JRNL CODE: PFS
WORD COUNT: 4220

... **Freitas, John**

V. Additional Resources Searched

EBSCO HOST
0 HITS